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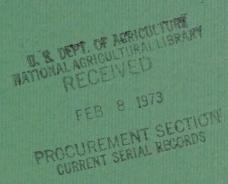


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NEW YORK STATE

AGRICULTURAL EXPERIMENT STATION

GENEVA, NEW YORK



REGIONAL PLANT INTRODUCTION STATION

VEGETABLES AND ORNAMENTALS

DESCRIPTIVE NOTES

SEED AVAILABLE



NEW YORK STATE AGRICULTURAL EXPERIMENT STATION REGIONAL PLANT INTRODUCTION GENEVA, NEW YORK 14456

SEED AVAILABLE AND DESCRIPTIVE NOTES

1970 Season

VEGETABLES and ORNAMENTALS

U S NORTHEASTERN REGIONAL PROJECT, NE-9 14 Agricultural Experiment Stations

Cooperating with

NEW CROPS RESEARCH BRANCH AGRICULTURAL RESEARCH SERVICE U. S. DEPARTMENT OF AGRICULTURE

Released January 4, 1971

DESMOND D. DOLAN Coordinator, Regional Project, NE-9

William R. Sherring

Samuel W. Braverman Asst. to Coordinator Research Plant Pathologist

ERIGH AVITATIONED CHA WIELLIAVA GALE

BORDAR OF EL

BLAT SALES one BELLANTIN

CATHARATTRE REGIONAL TROJECT, AL- 9

Cooperating vita

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Law Day De Louis House Restret HE-9

Stangel V. Errysman Rosearch Plans Policietat

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INTRODUCTION

Plant introductions herein listed are available from the Regional Plant Introduction Station, Geneva, New York. All were grown and increased during the past year. Notes were taken, as completely as possible, on horticultural characters and on disease and insect resistance. Ratings indicating resistance or tolerance do not imply that all plants in the row were uniform for this character. Photographs of many introductions may be borrowed from the Regional Station.

It is hoped that these notes may aid breeders in selecting plant materials for research projects.

Those receiving seeds may assist our program by reporting the merits and uses of plant introductions to the Regional Station.

Catalogs issued in 1954 through 1970 are on file with each Regional Representative and at each State University Library. Seed of all introductions previously listed are still available.

A similar catalog of forage legumes and grasses is sent in alternate years to all forage crop breeders.

, Games Carrie

Flass introductions servin listed are smallable from the Regional Plant Introduction Station, Geneva, New York. All were grown and increased during the mast year. Notes yere taken, as completely as possible, on north-ultural characters and on disease and insect registance. Natisgua indicating resistance or telerance do not imply that all plants in the rewwere uniform for this character. Photographs of many introductions may be borrowed from the Poulonal Station.

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Available Vegetable Introductions (1970 Season) Released January 1971

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STREET SO SIAST

Available Verstable Introductions (1970 Senson)

	Praesica oleraceu v. comycle
10-01	

ALLIUM CEPA

1970 Descriptions and Evaluations

Seeds treated with Arasan 75. Seeded in bands in flats, 90 seeds per accession, 3/6/70. Set in field 4/27/70, 30 sets/accession. Spacing $4' \times 3.5' + 4'$. Fertilizer 640 lb. 10-20-20/A. Notes taken 8/14, 17, 18.

1=poor	l=poor			1=least		l=very late			o=oval	y=yellow	l=few			l=poor
5=medium	5=medium			5=medium		5=medium	imeters	meters	f=flat	br=brown	5=medium		f=fine	5=medium
3 Uniformity 9=very uniform	4 Vigor	5 Plant height in centimeters	6 Number of leaves per plant	<u></u>	8 Number of broken leaves	9 Maturity 9=very early	10 & 11 Neck length x diameter in centimeters	12 & 13 Bulb depth x diameter in centimeters	14 Bulb Shape g=globe	15 Bulb color r=red w=white	Col. 16 Number of loose scales 9=many	17 Root length in centimeters	Col. 18 Root size c=coarse m=medium	Col. 19 Keeping Quality 9=best
Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.

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		P. I.No.	222223		222698		222764	222765	226447		227346		232069		233188		233189	233190	234595		236025		239633	247067		248753		240,124	251041	251509		255461	255557	256048	256049	1000

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	Neck	x Dia.		1.3	2.0		8.0		2.0		2.0		1.4		1.3		1.5		1.5		1.5		T.5		9.t 0.t		1.8				1.8		1.1	1.8		1.5	
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		Orig.	Austral	Ger.	Fr.	Rouge	USSR	'Dungansk:	USSR	'Vostorkny'	USSR	'Zolotai Snor	Spain	Elanca.	Spain	'Cebolla	Tur.	Eleven plants	Tur.	Variable	Tur.	One head.	Tur.	Variable	Tur.	Six nlants	Tur.	Variable	Tur.	Tur.	Tur.	Tur.	Tur.	Tur.	eq	Tur.	Variable
		P.I.No.	260447	260793	591198	n.	262918	,	262921		262922		343048	-11-	343046		344247		344248		344249	Sold of Control	2446,00		344251		344253		344254	344255	344256	344257	344258	344259		344260	

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	- - - - -		7.3	5.2	Park .	6.5	7.5	7.0		6.9		8.5		6.1	5.1		5.5	o vigo			4.8		9.1		
	AS L	A DIG	1.5	1.3	***	1.5	2.0	1.8		1.5		3.0		1.3	1.5		1.5	not too vig	2.5		1.7		7.7		
	Ne Toth	12001	5.0	0.9	1,0° s	5.5	4.5	4.0		4.0		5.0	bulbs.	0.9	2.8		5 3.0		4.0	d tour.	4.0		5.8		
	1,000		_	9	×.,	2-9	9	7	. 80	7-8		4-5	long	7-8	9-5		2	o pe	n	· field	0,		6		
No.	Broken	ראמי	4	CJ		-	9	m	11 bulbs.	n		†	orous,	m	m		N		2	Very vigorous, staked for	0		0		
	Amt.		2	5		2-6	2	9	l small	5		Н	fairly vigorous	9	m		m	nts aj	4	, stal	9		5		
	Lvs./	• T T T	9			9	<u></u>	<u></u>	several	2		10			ال		7	small plants, some plants appear	11	gorous	2		5	5585	
	÷		7 50	50	; ;	05 2	54 7	9 50		3-6 45	ize.	65	day,	50	5 30	° O	1-4 30	5, 80	8-9 70 11	ry vi	5-6 55	5571.	50	#36 #	
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	Thit	OTITIO	ω	9	ants	9	9	77		7	le pla	-1	for 1	<u>-</u>	5	small plants.	7	mall 1	ω	#5562	9	ng Glo	<u></u>	toir G1	11
	٠ ا	01 100	Tur.	Iran	Two plants:	Iran	Iran	Iran	Variable	Iran	Variable	Iran	Staked for field day,	Iran	Iran	Very s	Iran	Some s	Co1.	Queen #5562.	Col.	Bunching Globe #5571.	Col.	Stockton Globe #36 #5565	schanin
	τ σ Δ	T . T . TAO.	344261	344384		344385	344386	344387		344388		344389		344390	344391		344392		G-19685	Eastern	G-19686		G-19687		Allium oschaninii

80 N

3-4 3.0 2.5 0 345539 USSR 6 6 40 12 6 Two plants, variable leaf size.

Allium thunbergii 7 μ 25 11 1 0 μ 318515 MG. Two plants, 3 heads, very small plants and leaves, no necks 8/18/70.

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	Keeping Quality		6	α)			c	7	Q	2	
	Sz.		Ħ	1	ا ا		m-c		ပ	q	H-I	
	Root Lgth. S		5.5	u	0.0		0.0	,	2.0	7 0	0.0	
	Mat. Lgth. x Dia. Dpth. x Dia. Shp. Color Scales Lgth. Sz. Quality		4 5.5	Ų	0.0		2 . 20.0	-	4-7 2.0	C	0.0	
	Color		>	;	S-i		×		≿		3	
0	Shp.		1 60		Ao		ob1	1	61	!	8.2 fl gl w	
Bulb	x Dia.	arison	3.0 1.5 10.0 8.5 gl	t c	8.5 ov		3.0 obl		9.2 gl	c	α. N	
	Deth.	or Com	10.0	ì	2.0 9.5		5.5.	(1.5 8.1	(1.5 5.8	
	k Dia.	nded f	1.5	4	0.0		1.9: 5.2		1.5		L.5	
	Neck Lgth. x	Standard Cultivars Included for Comparison	3.0	1	3.5		7.0.4		7-8 4.0		3.5	
	Mat.	ltiva	6	(∞		2-3		1-8	1	ω	
No.	Broken Lvs.	ard Cu	9		[5		2		4	
	Lvs./ Amt. Broken Plt. Blm. Lvs.	Stand	9 9-5	,	9	head.	7		<u>ν</u>		7 9-5	
	Lvs./ Plt.		10		0	One	10		9		2	'White Port' or 'Silverskin'
	Ht.		3 55	11obe	40	lobes	3 65	1g.	55		9	Silv
	Vig		7-8	110W (9	Red G	7-	mchin	7		<u></u>	or
	Unif.		Φ	ng Ye.	7	port I	0	lese Br	<u></u>	zer'.	Φ	Port
	Orig.		N.Y.	'Downi	N.Y.	South	N.Y. 8 7-8 65 10 4	Japanese Bunching'.	N.Y. 7 7 55 6	'Ebenezer'.	N.Y. 8 7 60 5	'White
	P.I.No. Orig. Unif. Vig. Ht. Plt. Blm. Lvs.		G-19676 N.Y. 8 7-8 55 10	'Downing Yellow Globe'.	G-19678		G-19683		G-19677		G-19680	

ALLIUM CEPA

Cold Germinating

1970 Descriptions and Evaluations

Onions put on to germinate at 6° C.(420° F.) for 6 weeks, 33 seeds of each accession, the strongest sprouts were then put in the greenhouse until bulb size. The bulbs were put in the field 4/27, 6/1, and 6/30/70. Spacing 4' x 3.5" + 4', Fertilizer 640 lb. $10\cdot20-20/A$. Notes taken 9/3/70.

l=poor l=poor	1=least	l=very late	o=oval	w=white l=few	f=fine	
5=medium 5=medium	5=medium	5=medium	f=flat	br=brown 5=medium	m=medium	m l=poor
9=very uniform 9=most n centimeters	of leaves per plant of bloom 9=heavy of broken leaves	Maturity & 11 Neck length x diameter in centimeters & 13 Bulb denth x diameter in centimeters	g=globe	Bulb color y=yellow r=red Wumber of loose scales 9=many	arse	y 9=best 5=medium
Uniformity 9=ve Vigor 9=mor	Number of leaves per plant Amount of bloom Number of broken leaves	Maturity & 11 Neck leng	Bulb shape	Bulb color Number of loos	Root length in centimeters Root size c=co	19 Keeping Quality
M 4 M	0 -0	901		15	17	19
CO1.	CO1.	Col.	Col.	Col.	Col.	Col.

. Č		5																															
	Keeping	Quality		6		N	7	-	_	7		9		7		9		9		9		S	2		5	-				_	t	-	
	Y S	5Z. Q		m			a		ပ	n c		田田		m-c		Ħ		TI.		日日		m	mc		m	m-c		日		Ħ	Ę		
	Root	Letin.		7.0			0.6		11.0	8.5		9,3		7.5		ထ ထ		0.6		7.0		10.5	8.5		6.1	8.5		10		တ က	ار د	t H	
	No. Loose	Scales		5			-	. \	9	_		7		_		2		2-6		77		9	_		2	9		9	,	9	4	Þ	
0	, C	COTOL		Y			r&br		r&br	r&br		r&br		br		br		L brew		y&br		ધ	r&br		¥	br		br		٤١	۶	-1	
Bulb	ا الاط	Sup.		61			ΛO	,	ov≷	ΔO		OV		63		18		fl g1		61		VO	OV		61	ΛO		VO		E3	[1	
	Ë	x Dla.		10.5			7.3	. (ο Σ	7.1		6.7	,	10.6		0.6		9.0		7.5		0.0	8.0		0.6	6.5		0.6		7.2	α		
; ;		Dptu-		8.8			6.0	1	5.5	7.5		6.5		0.0		7.0		5.		0.9		8	6.7		5.5	0.9		5.4		6.5	α	0	
	차	x Dla.	cepa	2.7	(O. N.	1.0		H.	2.0		1.1		2.7		2.8		1.0		1.0		1.5	1.0		1.4	.5		2.2		1.5		- -	
	Neck Tath		Allium	7		٥	_	í	14	10		_		10		Φ		10		5		01	7		α	9		m		m	Ł		
	+092	Mar.	.,	7	(V.	7	c	∞	8	,	9	,	9		2		2		7		V	77		5	5		_		77	7)	
No.	Broken	LVS.		7	r	TO	9		9	5	r.	2		10	ant.			10	•	2		2	12		4	2	r.	5		2	V	0	
		DTIU.		1 7	(٥	4	poor multiplier	m	7	head, multiplier.	m		īV i	one dead plant.	3-4,2014		2	multiplier.	7	ppor.	4	3-4		\sim	7	one head, multiplier	7		4	C	n	
		FIL.		r)	58.	_	†	r, mult	#	2	J, mu	2	,					7			very	2	9	ier.	7	7	l, mul	4-5	٠,	2	(3-7	
	##				bulbs.	24	5 40		0 7	50		38		09	plants,	20	ids.	710	one head,	36	2 plants	55	6-7 55	multiplier.	0 70	3-4 40	head	50	multiplier.	2-6 40	<u> </u>	4-7 47	
	Thif Wig	778		5	large	0	4-5	حز	٠. د	9		5		9	11 pla		3 heads.					2	9			3-1		5	mult	5-(‡ [
					Six plants,	0 1	to prants. Tur. 5	Nine plants,	Tur. Fight plants.	9	Eight plants,	9	Four plants.	<u>_</u> ,	Two heads, 1	2	Six plants,	9	plants,	3	plants,	9	_	plants,	2	7	Seven plants,	2	Six plants,	9	Six plants.	Iur. Six plants.	
	٥. ا	OLTB.		N.Y.	Six p	IN O. I.	To br	Nine	Tur. Eight	Tur.	Eight	Tur.	Four	Tur.	Two h	Tur.	Six p	Tur.	Nine	Tur.	Four	Tur.	Tur.	Seven	Tur.	Tur.	Seven	Tur.	Six p	Syria	Six p	Six p	1
	T. Q.	F. L. NO.		G-19679	00701	G-19003	171474	100	T.(14.(2	171476		171477		171478		172700		172703		172704		174014	174017		174019	176399		177242		177247	17010	1 () TO#	

	Keeping	Quality	0	9	,	9	f	4			3		∞		_		-		∞		∞		9		_		5		2		6		4.
	N. N.	• 1		1-C		J-C	_		4.				and .						ent.				n-c				DE		H-		D~⊟		
	Root	. Sz	Ħ	Ħ		Ħ	5		O		Ħ		E		Ħ		Ħ		H		Ħ				日日				4-1				O
	Ro	Lgth	5.5	5.5		0.6	11.		9.0		7.7		9.7		5.3		8.5		8.8		7.2		7.0		9.0		800		7.0		7.0		8.7
	esc	-																															
	Loose	Scales	2	_	× 1	9	9	. 5	9		2		9		2		9		_		4		2		77		5		2		2		2
	No.																																
0		Color	br	br		H	٤		br		H		£,		£ı,		ы		>		br		×		H		rew		br		7		ræw
Bulb		- 1	سب	تنتم		-			- Park				~		-		~		٠,		h-d-		128		-		~		كنم		P		81 1
		Shp.	150	7		60	DQ.		OV		VO		MO		ΔO		VO		VO		61		OV		VO		60		VO		18		fJ
		Dia.	7.3	11	•	10.8	9,8		4.6		0.6		8.6		10.2		9.5		5.5		8.5		10		7.5		0.6		7.5		10		10.1
		×		• •				•							. ,								` '										
		Dpth.	5.5	7.2		7.7	6.5	,	6.5		7.8		5.5		7.5		7.5		5.3		6.5		7.0		9.5		6.3		9.3		12.3		0.9
		-1		0		r-4	~)	2		9.		.7	,	9		0:		٤,		2		0		2		†		0		0		Н
	м	x Dia	N	1.0		~ ,	ļ		4.		ri		•		1.6		۲.		-		H		S		i		H		2.0		i		2.1
	Neck	1							.		9		5		7.5		10		5.0		0.9		10		7.0		6.0		7.5		4.5		4.5
		Lgth.	7	4	•	.	ſζ	`	-		0		u \						u v		0		-		-		•				~		~
		Mat.	7	2		_	2	`	7		9		9		7		2	•	ω		ω		9		\sim		<u>[</u>		\sim		5		2
	ten	.1	-+	∞	,		10		M		\sim		\sim		_		က	lier	ω		2		∞				10				t		m
No.	Broken	Lvs	7	~			ū	•			` '		•					tip	1		` '						•				~		
	Amt.	Blm.		4	,	9	~) .•	7		2				-		N	plant, multiplie	9		8		2	multiplier	#		4		8		77		<u>ال</u>
		1					\0	lier									9	ant,	•					\mathtt{ltip}								bulbs.	
	Lvs./	Plt.	2	9	er.	1	3.Y. • 5	Ltip	#	٠	2		_		2	٠	5-6				†	er.			2	ier.	5		4				. 0
		Ht.	24	35	multiplier.	40	murtipiler 5 50	poor, multiplier	50	Two plants, multiplier.	20	ier	38	plant, multiplier.	48	plants, multiplier.	35	dead	45		710	multiplier.	20	one head,	50	multiplier.	50		70		20	very large	6 50 multiplier
		Vig.	m	9	mult	ر ا	iarta 5	oor,		ltip	†	tipl	∞	tipl	2	ltig	2	one	9		5	mult	5	ne l	2	mult	9-6		2		9-9	ry]	6 ltir
										, mu		plant, multiplier		mul		, mu						•						ts.					
		Unif.	1	int.	plants,	9	prants,	plants,	2	unts	0	unt,	0	unt,	5	unts	5	Three plants,	9	plants.	9	plants	2	plants,	0	plants,	9	plants.	rV.	Two plants.	9	Two plants,	plants,
		50		One plant. Syria 7	C				,d	pla	п	pla	h.	pla.		pla		ee I	E.	e p]	H.	Ð		e P		Three 1		Seven 1		pla	نړ	pla	h. pls
		Orig.	Tur.	One p. Syria	Seven	Tur.	Tour Tur.	Four	Afgh.	Two	Iran	One	Afgh.	One	Hr	Two	Ir.	Thr	USSR	Five	USSR	Thr	Ir.	Five	Grc.	Thr	Grc.	Sev	Grc.	Two	Port.	TWO	Afgh. Six p
		.0	55	6		35	53)	11		52		98		9†		38		38		99		33		38		39		10		98		02
		P. I. No.	179165	181929		182135	220763		221911		222765		223498		227346		227438		233188		233189		239633		249538		249539		249540		249898		251020
		141		-		r=-	N		N		CU		CU		CA		CV		CA		CA		CO		CA		CA		CO		10		(4

	ng	ty																									p	. 1.	1
	Keeping	Quality	0	6		٦	∞	ω)	0,	∞	0	^	8	(N	ω.	-	4	2	4)	7		7	ı	<u></u>	77	
		Sz. Q	f-II	Ħ		f-m	日 日	Ħ	I	Ħ	目	E		Ħ		O I	O-B	the state of	1	Ħ	É	3	f-m		f-m		Ħ	f-m	
	Root	Lgth.	8.5	0.6		0.9	7.7	8.0		0.9	7.0	0.5		4.5		٠ ٥	6.5	7.5	•	9.3	0		8.0		8.0	(7.5	9.5	
	No. Loose	Scales	<u>r</u>	7		†	2	2	\	2-9	7	ľ	\	5	(V	ſν.	C	`	9-6	ľ	`	2		7		4	9	
Bulb	ľ	Color	× ×	ы		r&y	br	٤	ı ⁻	br	>	٠ <u>٠</u>		r&br	d	FEW	⊳	br	1	br	2	4	br		H	•	br	h	
		Shp.	glkov	18		l B	r ₀	5	l 0	100	F8	٥	0	13	٢	P0	100	6	0	VO	40	3	ΛΟ		VO		81	81)
		x Dia.	7.0	9.7	,	6.5	8.7	0.9		7.6	0.6	0	`	8.5		0.0	8.5	6.7	•	5.5	0	•	0.8		φ α	,	6.5	7.2	
		Dpth.	0.6	6.2	,	6.5	6.7	5,5		5.4	0.9	0)	6.3	L	0	7.0	5.6)	4.9	0	•	7.3		6.5	1	2.0	7.2	
	- 1	c Dia.	1.1	1.5		7.5	1.5	1.8		5.0	2.2	0 [j !	1.1	(O.	1.0	Φ,	>	1.5	٧	-	1.5		1.5	(- 1	1.1	
	Neck	Lgth. x	7.0	5.0	,	6.5	6.2	5.5	,	9. 5	6.2	9	•	6.3	(ν. Ν.	ص ش	5.2		0.9	L.		4.8		6.2	(3.5	10.2	
		Mat.	7	œ	,	9	77	9		_	7	7	•	1-9	نہ	‡	8	9)	9	ľ	`	5		9	(9	2	
No.	Broken	Lvs.	Ø.	m		m	9	m)	9	0	r)	8	نہ	‡	#	-	1	ℷ	۲	-	2		9	1	Н	11	
	Amt.	Blm.	4-5	. *	plants.	m	2	4		9	7	ĸ	`	77	Ĺ	^	m	7	-	2	O	1	2		N	(m	2	
	Lvs./	Plt.	5	3-5		4	5	4		4-5	m	ľ	`	2	L	^	5	~)	2	9)	9-5		3-5	(οi	9	
		Ht.	50	Large 34	small	32	50	70		34	040	77)	04	C	77	45	70)	ተተ	LR.	er.	35	er.	42	er.	56	40	ier.
		Vig.	9	very 1	several	4-5 32	5	4-5		5	4	rc	`	5	L	0-0	2	7		77 9-5	multiplier	multiplier.	5-6 35	multiplier.	5	multiplier.	3	5. 6-7 40	plants, multiplier
		Unif.	9	4		ΓV .	9	s L	လူ	5	10	٠.		2		۵	9	, O		9		S. mu	5		9	s, mu	4 0	9	ts, m
		Orig.	Sp.	5 prants,	10 plants,	Sp.	Ger.	7 plants Ger.	3 plants	Ger.	Ger.	I plant	3 plants	It.	3 plants.	AIgn.	Swe.	W.Pak.	2 bulbs.	W. Pak.	5 plants,	8 plants	W. Pak.	3 plants,	W. Pak.	8 plants,	W. Pak.	W. Pak. 6	14 plan
		P. I.No.	264327	264328	į	264329	264623	264627		264647	264648	264777		264778	110000	200322	269306	269415		269417	269418		269419		269420	001070	269422	269423	

		. ,																															
	Keeping	Quality	<u>-</u>	α)	H	Н		<u></u>	†	a	0	0		٥		m		т.		~ 1	,	ω		Φ				_	(ω	8	
		Sz. 6	G-4	q.	1 7	4-1	4		4	9 —і	q		Ħ		f-m		f-III		ф. 1		f-m		m-c.		日日		f-m		f-m		f-m	f-m	
	Root	Lgth.	8.0	ע	•	7	4.0		0.9	0.4	c	7.6	10.0	-	₽.0		4.5	**	0.9		0.9		11.5		7.5		2.0	•	9.6		9.1	10.5	
	No. Loose	Scales	2	Ľ	`	4	N		9	m	-	t	9		0		2		ന				m		m	· ·	9	-45	2		2	4-5	
1b		Color	W&r	۶	+	Ы	br			l br		,	Þ	,	r&w		r&y		ы		r&br		gl r&w		۶۰		br		r&br		я Н	>	
Bulb		Shp.	150			81	63			fl gl	į	>	[d]) - e/2	OV		81		61		100		fl 8		63				63		f1 &	ΔO	
		x Dia.	3.8	. ~		3.3	0.4		4.9	4.1	n 1	- :	7.2	C	o o	•	0.4		2.5		4.0		10		7.5		7.3	•	7.8		4.9	5.6	
		Dpth.	3.7	7			2.8			2.1	α	•	6.1	ŧ	2.1		2.0		2.8		3.5		6.2		7.1		8.6		0.9		4.5	6.2	
	ĸ	Dia.	∞.	C	•	0.8	0.7		9.0		7) +	2.0	,	1.1		1.0		0		9.0		1.7		2.5		1.2		1.8		1.0	1.5	
	Neck	Lgth. x	2.5	7 6	9		1.2		1.5		0	0	4.1	,	6.5		5.1		1.5		2.0		7.0		5.1		5.3		7.0		4.2	6.3	
		Mat	2	9	>	∞	9		ω		U	`	2	t	<u>.</u>		2	•	7		М		2		5		<u>ا</u>		9		2	2	
No.	Broken	Lvs	_	O	J	9	m		7		C	1	77		7		α	palpa	2		m		Φ		2		0		4	,	4	m	
	Amt.	Blm.	 	C	1 in bloom, multiplier.		1		1		9)	5	Ó	m		2	small					5	ulb.	-	,	9		4	lb.	m	4	
	Lvs./	Plt.	CV.	77	multi	4	2		2		L	`	5		<u>^</u>		2-3	ants,	7		#	•	9	per bulb.	3-5		†	`	2-6	per bulb.	7	4-5	
v		Ht:	25	r. 34		13.0	3.0 2		12		7	2	58		36	ier.	30	or pl	11.0 4		1.0				9	1	45		20	ots be	33	45	er.
		Vig.	2	poor.	in b1	c	<u>.</u>		m)	5-6:58	ī	۷ :	Ltipl.	m	ry po	7	۰	m	•	9	any re	2	ł	rV		2	y roots	5	5	tipli
		Unif.	4	s very	1			bulbs			bulbs.)	5		ر ر	s, mu	m	s, vel		bulbs		bulbs.		SS Inc	5		0	`	9	, mar	5	9	, mul
		Orig. U	India	3 plants	6 plants.	India	S. Afr.	2 small bulbs.	S. Afr.	S. Afr.	3 small	5 mlante	Pol.	8 plants.	Ethio.	4 plants, multiplier.	Ethio.	6 plants, very poor plants,	Ind.	4 small bulbs.	Ind.	5 small	Grc.	12 plants; many roots	Grc.	2 plants.	Nor.	1 plant.	Ind.	5 plants, many	Leb.	USSR	4 plants, multiplier.
		P. I.No.	271039	002120	100117	271310	272255		272256	272257	070070	213013	273212	70,000	5.(3626	•	273627		274780		274781		275964	,	275965		276324		277266		277349	280553	

	60 5	J																	p.	1
	Keeping Quality	7		ω	∞		Φ	r1	Φ	ω	00	0	77	9	00	Н	∞	2	∞	
	12	B		Ħ	E	Ħ	田	Ħ	Ħ	日	f-m	日	f-m	E	G	Ç.,	G-1	E	f-m	
	Root Lgth. S	10.5		7.5	8.0	6.5	8.0	8.6	7.0	0.0	5.4	5.8	5.5	6.5	4.5	6.5	5.5		10.0	
- 1	No. Loose Scales	9		m	9	7	9	m	7	9	5	7	m	=	r-(H	N	m	m	
Bulb	Color	×		×	\mathbf{pr}	br	br	A	br	br	≻	>		×	O	, tq	>	br&w	1 w&y	
À	Shp.	81	1	ΛO	B]	18	13	61		H	ΛΟ	FI FI	fl gl) 1 0	1	ΔΟ	20	ΛΟ	fl gl	
	x Dia.	8.0		6.2	7.1	7.5	7.2	7.8	6.2	6.1	5.6	7.0	6.1	6.0	3	1.7	4.7	3.1	5.3	
	Doth.	4.9		4.9	7.2	5.7	5.9	6.5	7.3	5.5	7.0	5.0	4.5	5.5		2.5	. œ	0.6	3.7	
	Dia.	3.3		1.3	2.2	1.5	7.5	1.2	1.5	0.0	1.5	H.3	φ.	1.0	0.4	9.0	D. C	1.0	1.3	
	Neck Lgth. x	6.8		5.8	0.9	0	3.5	3.0	6.1	5.8	4.5	4.1	m m	7.5	2.5	7.5	2.8	4.5	4.2	
	Mat.	7	. M	9	7	9	7	77	~	9	5	9	7	- 4	Н	H	4	m	. sq	
No.	Broken Lvs.	m	large necl	٦	4	0	Н	α	0	m	ts.	N	Ŋ	8	~ ~	ત	N	S	bul 3	
	Amt. Blm.	2		4	9-5	8	5	7	4	7	r plants.	7	N	4			5		slender 5	
,	Lvs./ Plt.	2-5	leaves;	\sim	5	7	5	2-5	m	2-5	y poor 4-5	2-4	m	4	4	ന	7	7	fine leaves,	
	Ht.	102	wide	38	54	70	742	717	poor.	41	l very	70	28	oor.	poor.	12.5	38	poor.	ne le 36	
	Vig.	4-5 70	fairly wide	4	4-5	5	1	m	very poor 4-5 45	2-5 41	several ve 4-5 46	2-4 40	3 poor.	24	very poor.	. 01	7	l very poor.	п,	
	Unif.	5		0	.:	0 .83	; ·	4.83.	3, 5	s S	its, se	ants.	and the last	s, very	m	l bulbs.	bulbs.	V()	S, very	
	Orig.	USSR	3 plants,	Pol.	1 plant. Pol.	5 plants Pol.	1 plant.	3 plants Neth.	3 plants Neth.	4 plants Neth.	13 plants, s	Six plants.	5 plants, Neth.	3 plants, India	3 plants, India	2 small India	8 small Yugo.	3 plants,	5 plants, Iran 4 plants.	
	P. I.No.	280554		285541	285543	285544	286612	288072	288074	288075	288076	288078	288079	288270	288271	288274	288692	288907	292163	

	Keeping		Н	Φ		Н			
	Root	Sz.		9-1				f-II	
		Lgth. Sz.		7.5 £				11 f-m 7	
	No. Loose	Lgth. x Dia. Dpth. x Dia. Shp. Color Scales		Н				2	
Bulb		Color		>	>			ы	
Ä		Shp.		ΔΟ				rg Tg	
		x Dia.		5.2 1.0 6.4 5.2 ov				5.2 1.1 5.0 5.1 gl	
		Dpth.		6.4				5.0	
N. O. Dr.	CCN	x Dia.	4.6 2.2	J.0		.5		H.H	
I.C.	AT		9.4	5.2		3.5		5.2	
		Mat.	m	· (1)		Н		2	
No.	Lvs./ Amt. Broken	Lvs.	7	2		0		Н	
	/ Amt.	Blm.	5	N	lant.	2		2	
	Lvs.	Plt.	9	7	per p	\sim		m	ts.
		Ht.	55	1,84	ots]	25	ts.	43	n la
		Vig.	9	50	y ro	3 25	plan	4 3-5 43	sma.]]
		Orig. Unif. Vig. Ht. Plt.	_	nts.	7 plants, many roots per plant.	77	2 very small plants.	4	3 plants. 2 small plants.
		Orig.	USSR	11 plants (Rumania (7 plan	Afr.	2 very	USSR	3 mlan
		P. I. No.	293756	321385		G-13179		G-18169	

BRASSICA OLERACEA V. BOTRYTIS

Pricked off 4/24/70, Fertilizer 640 lb. (Cauliflower)
1970 Descriptions and Evaluations
Seeds treated with Arasan 75. Seeded in greenhouse 4/15&16/70, 96 seeds per accession set 10-

-				
eds per accession. Two replications.	<pre>l=least l=prostrate l=least</pre>	d=dark green l=little l=very late	l=loose y=yellow	l=slight l=slight
e 4/15&10/10, yo se acing 4' x 1' + 4'.	5=medium 5=medium 5=medium	m=medium green 5=medium 5=medium	5=medium v=white	5=moderate 5=moderate
with Arasan (). Seeded in greenhouse $4/15$ %10/70, 90 seeds per accession. F5/28/70, 16 plants per accession. Spacing $4^{\circ} \times 1^{\circ} + 4^{\circ}$. Two replications. Notes taken $9/1/70$.	U 13 61 13 13	Leaf height in centimeters Leaf width in centimeters Leaf color Amount of bloom Maturity Number of heads	Curd depth in centimeters Curd diameter in centimeters Curd compactness Curd color Curd color Curd color	Number of plants bolting Cabbage worm injury 9=much Flea beetle 9=much
1d 5/	100 to		114 00 115	
eeds treated with et in field 5/28/7 0-20-20/A. Notes	601. 601. 601.			(601. (701.

Flee	Beetle	0-3	77		N		01	(N	03		0-1	(2-3	0-1		0-5		0-5	•	0	0		0-2		0		>	0	
Worm		2	~)	2-4		9		7	N		2-5	-	寸	1-2		1-3		3-6	1	2-5	1-2		3-6		1-4	. · · ·	7 - T	7-7	
No.			10	Ì	77		0	(>	0							12							Ч		5				
Date	Edible		7-26) -	8-4		8-7	c	0-0		ن													8-1						
	Col.		وار	4	cr		⊳		r U	cr	the head			M			cr							cr		⊳				
ಭ	Comp.		7	-	7		ဆ	1	0-)	9	in					Q.	72							4		4				
Curd	Depth.xDiam.		26		ω		25	Ó	7.7	20	bolting					is formed.	25							18		15				
			œ) f	20		16	(75	12	d; some					no curd	6 2 15			ts.				Φ		18				
No.	Hds.		_	1	7	the heads.	<u></u>	c	Ö	٦	ne head;			71 /11	.01./1	1/70:	N			24	0	0		N		9	c	>	0	
	Mat.	Н	ć	,	2	the k	4	-	寸	m	in the	H		, VI 1	11, 9/1, 9	em 9/1	9		~	erect			.07	3	to bolt.	<u>√</u>	٦	4	Н	
Amt.	Blm.	9-4	~)	2	le in	5	ŧ	7	2-6	urple	9	lants.	3-5	- very small	many of them	9-4		57	airly	2-6	9	9/1/	2	ng to	3-5	U	^	9	
	Col.	-	۲	eş e	Ħ	purp	댐	le.	Ħ	m-d	ad; pa	됩-	ect p.	됨		nany	ರ		1-m	70; f	c	•	heads	1-m	starting	1-m	1	Ħ	·Ħ	
Leaves	Lgth.xWth.	31	ľ	`	18	some	24	purp	77	20	as he	30	ry er	200	form 8	eed, 1	4	eads.	56	9/1/	28	23	ou ?	31	rds s	20	ć	22	•	ons.
	Lgt	85	9	>	09	lants;	52	ing to	> 4 ≥ 5694	60	lant h	99 -	ds; ve	00 .	ing to 17	e to s	. 43	two h	72	heads	(2)	70	erect	10	ome cu	09	()	0.0	63	vigor
Plant	t.xWth.	8 100 105	$\frac{18.9}{45.50}$	e head.	65 100	Three very small plants; some purple	06 0	ow turn	לט ל היייום	5 80 60 2	One p	0 100	No hear	001 0	beginn 0 55	ed; gon	0 85	heads;	5 105	ous; no		001 00	Quite	8 110	mall; s	0 100	heads.	for TIO	8 7 7-8 70 110 63	Fairly
	lig. H	8	heads 5	Ö	9-	very	7 9	Yell	· ` `	. 8	oril'.	8	ste.	ρ.	3-5 μ	L bolt	5	ole in	ω	vigor	בייניינייני	8 8 8	lik'.	9 2-9	rery s	2	heads	٦ . و و	7-8-7	ja'.
	Hab.	3-8	lite'. No	rving	3-6	Three	7	aya'.	ر ر	5-7	arf Ag	7-8	rdy La	<u> </u>	Heads	. A1	2	Puri	22	Very) <u>-</u> 9	n ceng	ta Kis	2-9	eads 1	1-9	Small 7	ן איני	12 CT	esenie
	nif.	8	hite' 5	Prese		, g	7	tvenn) Thomas	2 c	ge Dw	∞ :	ge Ha	ρ.	on'.	atna	ω	ase.	ω	hr.	ري پ ج	717 7	hr Or	7	. H	9-9	. a) A	· ©	aja Ve
	Orig. Unif. Hab. Vig. Ht.xWth.	USSR	'Early White'. No heads $9/1/70$.	Moscow	USSR 4 3-6 2-6 65 100	'Snezinka'.	USSR	'Otechestvennaya'. Yellow turning to purple.	USSR	USSR 7 5-7 8 65 80	Cambrid	USSR 8 7-8 8 70 100 60 30 m 6	'Cambrid	USSR .	Malmaison'. Heads just beginning to form USSR 5 4-5 3-5 40 55 17 8	'Early F	USSR 8 5 7 50 85 43 4	Mozakiw	Tur.	'Karnabahr'. Very vigorous; no heads 9/1/70; fairly	Tur.	Adrianali Son cengeracy . No neads 9/1/10. Tur. 7 7 8 80 100 70 23	'Karnabahr Orta Kislik'. Quite erect; no heads 9/1,	Tur.	'Erkenci	Tur. 6-6 6-7 7 80 100 60 20	Orta-209'. Small heads.	1 Ger 337	USSR	'Adlerskaja Veseniaja'. Fairly vigorous.
	P.I.No.	343474	343475		343476		343477		343478	343479		343480		3434QT	343482		343483		344268		344269	344270		344271		344272		044610	345541	

Date No. Worm Flee Edible Bolt Inj. Beetle		ر د د	V-10	2-0 9-2	7-28 15 2-4 0
No.		C) (0	15
Date		φ 1 0) t)0	7-28
Col.		C		4 5	
Curd		7	6	-	
Curd Depth. Diam. Comp. Col.	SON	7	00)	
	Standard Cultivars Included for Comparison	15	14		
Amt. No. Blm. Mat. Hds. 5-6 0	for C	9	12		0 /1/70.
Mat	Luded	7	4	•	9 rds 9
	Incl	2	2	Į,	no ou
Col.	tivare	Ħ	Ħ	1	m-a leed;
Leaves Lgth.xWth. 70 23 7 vigorous.	d Cul	20	22	00	ting s
Leth.	andar	77	09	70	s set
Plant Ht.xWth. 70 100	103	100	95	100	olted
%: Ht8 70 679'.		45	7 70	80	A11 1
b. Vig	,	Snowball Imperial'.	-6 5-	6 7-	ad'.
f. Ha 6 a Zim	-	4 Imper	. T		ole He
Uni 7 rskaj		6 ball	6	7	Puri
Orig. Unif. Hab. Vig. Ht.xWth. Lgth.xWth. Col. USSR 7 6-7 7-8 70 100 70 23 m 'Adlerskaja Zimniaja 679'. Very vigorous.	74	'Snow	N.Y.	N.Y.	Earl
45542	81201	'Snowball Imperial'.	-19719	-19717	'Early Purple Head'. All bolted; setting seed; no curds 9/1/70.

BRASSICA OLERACEA var. CAPITATA (Cabbage) 1970 Descriptions and Evaluations

Seeds treated with Arasan 75. Seeded in greenhouse 4/15 & 16/70, 96 seeds per accession. Pricked off 4/24; set in field 5/28, 16 plants per accession. Spacing $4' \times 1' + 4'$. Two replications. Fertilizer 640 lb. 10-20-20/A. Notes taken 9/1/70.

ast www.www.	<pre>l=light green l=little bloom l=late</pre>	<pre>l=loose rd=red b gn=blue green l=slight l=slight</pre>
l=least l=least l=few	l=ligh l=litt l=litt	l=loose rd=red l=sligh
5=medium 5=medium 5=medium s=small	m-medium green b gn=blue green 5=medium 5=medium	5=medium green m=medium green 5=medium 5=medium
9=very 9=most rs s 9=many		ers rd=round 9=very 1=light green 9=much
Uniformity Vigor Plant height in centimeters Plant width in centimeters Number of leaves	Color of leaves Number of wrapper leaves Amount of bloom Maturity Days to edible stage	Head depth in centimeters Head diameter in centimeters Head shape Head firmness Head color Number of plants bursting Number of plants bolting Cabbage worm injury Cabbage flea beetle
m4 v 0 - 8	ं तेत्तत	
CO1.	CO1.	

								N			- Frank	Days to									p. 2
P.I.No.		Orig. Unif. Vig.	Vig.	Ht.	th.	No.	Leaf Sz. C	Col. L	Wrp. A	Amt. Blm.	Mat.	Edible Stage	Dpth.	Diam.	Head Shp.	Firm.	Col.	No. Bur. Bo	Bolt W	Cab. Worm	Cabo. Bee.
329199	Neth.	9	∞	70	90	7	m-1g (ಶ	7	9	-	139	14	91	rd	<u></u>	bl gn	0	0 1	1-3	1-3
	'Norwegian		Savoy																		
330391	Nor.	<u>-</u>	ω	70	90		m-1g	1-m	3	_		127	14	18	rd	ω	Н	0			1-2
330392	Nor.	_	_	45	96	9	18	1-m	m	_	7	117	20	20	rd	ω	Jm	2			m
330393	Nor.	7	78		85		m m	_	7	2-9	m	132	10	17	rd	ω	_	0	0	2-5	0-3
343515	USSR	7		50	100	9	18 1	шфш	~	ال	7	117	17	21	rd	9	Н	0			2-5
	Buzo	Buzovka 147			1						-	1	((1	,			
343516	USSR	7	D-7	7-8 60	100	9	ස		\sim	_		117	50	23	rd	2-8	Н	0	0	2-4 (0-1
343500	USSR	. Savadovsk 271/203 USSR 7 8 48	27172 8	148	70	5-7	5-7 m-1g d		4	2-9		124	50.	23	rd	2-6	1-II		0	1-3	1-2
)	Early	v Rainham'	hem.																		
343560	USSR	8	ω	50	85	9	1 8 1	p gu	4	2-9								2,	m	3-6	11
	Luku	'Lukurishka'		me hea	are	red;	S		& gre	green.											
343569	USSR	7	3-6	3-6 38		9	s-m		0	77	ω	115	18	15	rd	6	Н	0	0 5		9
	'Ban-c	'Ban-da-ku'		Kohlrabi,	, various plant size,	is pl	ant s.		je je	very la	large p.	plant.									
343610	USSR	9	<u></u>	33	40	5	E		N		9	113	22	23	rd	7-8	-		0	3-4	1-2
	'Gluck	'Gluckstadter'	er																		
343619	USSR	7	_	77	90	9	6 m-1g m-d		m	7	9	120	77	22	ਸੰਧ	Φ	1-m	0	0	1-3	0
	'Early	v Drum	Drumhead!																		
343622	USSR	2	9	100	70	7		1-m		9									~7	7-9-4	2
	White	flower	r 8/4/	70;	no heads	fo		all b	bolted	2 (7)	setting p	pods.									
343625	USSR		က	54	100	9	m-1g (で		7	m	132	20	20	rd	9	日	0	0 7		2
`	Tomoe	Tomoe-Cuaru	מי																		
343628	USSR		ω	25	100	<u></u>	7g	rg	m	7	4	127	15	20	rd	3-5	E	0	7 0	1-4	1-3
	Sappo	'Sapporo Large'	rge																		
343630	USSR	7	_	38	96	2-6 m		1-m	. ≠:	68	N	133	13,	20	rd	9	·}	0	0	45	1-4
	'Nanbu	7																			
343631	USSR	<u></u>	<u></u>	97	90	9	m-1g	-	\sim	9	7	117	20	30	rd	9	1-m	0	0	2-5	12
	.Komija	ja Banli'	11.																		
343633	USSR	<u></u>	7-8	30	75	9	m 1	rd	\sim	7	Н	138	18	16	rd	ω	rd	~	0	ന	0-2
	'Zenith'		One sm		plant.																
343634	USSR	<u></u>	7-8	2-8 48	75	7	m-lg rd		†	ω	2	134	18	17	rd	ω	rd	χ.	0	2-3	-
	'Erfurter'	.ter!																			

									Nol			Days to									
				Pl	Plant		Leaf	£.	Wrp. Ar	Amt.		Edible			Head			No.		Cab.	Cab.
P.I.No. Orig. Unif. Vig. Ht. x Wth.	Orig.	Unif.	Vig.	Ht.	x Wth.	No.	Sz.	No. Sz. Col. Lvs.	LVS.	Blm.	Mat.	Stage	Dpth.	Diam.	Shp.	Firm. Col.	Col.	Bur. 1	出	Worm	Bee.
343635 USSR 7 7 35 60	USSR	7	7	35		2	m-18	5 m-1g rd 2-3	2-3	7	6	112	22	17	rd	80	rd	0	0	0-5	0-2
343636	USSR 6 7	2 子 5 7 7 8 7 8	7	38	USSR 6 7 38 75		18	6 lg rd 2-3 8	2-3	∞	4	127	22	18	rd	ω	rd	0	0	1-3	0-2
343637	USSR	7	8 -	53	USSR 7 8 53 85 7 1g rd 3-4 7-8	7	53 6	rd	3-4	78	m	132	15	15	rd	80	rd	0	0	0-1	0
343638	USSR	7	7-8	38	73	5	18 18	rd	2000 2000 2000 2000 2000 2000 2000 200	000	N	135	18	16	rd	00	rd	0	0	1-2	0-1
343639	USSR 'Kitzi	oger'	7 Sav	38 oyed.	USSR 6 7 38 60 5-7 s-m d-2 4-5 4 'Kitzinger' Savoyed. 40% row bolting 9/10/70.	5-7 OW WC	7 s-m	d	14-5 0/70.	4	80	113	21	19	rd	2	1-1	Н	9	4-8	9

		St	andaı	rd Cu	Ltiva	rs In	cluded	Standard Cultivars Included for Comparison	parison	, no 1							
G-19107 N.Y. 6 6-7 40 'Danish Ballhead'	80	2	m-1	5 m-1g 1-m	3-4 7	2	Н	139	17	20	rd	80	1-m 0	0	0	0 1-2 1-3	1-3
G-19720 N.Y. 8 7 30	65	7	Ħ	ರ	N	77	6	108	22	20	rd	7	H	15	0	0 1-3 1-4	1-4
G-18539 N.Y. 7 7-8 40 'Glory 61'	75	9	Н	ਰ	m	9	ω	113	42	56	rd	7	Н	9	0	7-7	0 1-4 0-3

0

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(Greenhouse)

Planted 9/25/69, notes taken 1/21/70.

1970 Descriptions and Evaluations

loog=L	l=very late		m=medium		l=slight O=none O=none
5=medium	5=medium 5=medium	p=pickler	f=few s=small na=many	w=white	<pre>5=medium 5=moderate 5=moderate</pre>
9=most intimeters centimeters	9=very early 9=many	s=slicer n centimeters n centimeters	m=many l=large f=few	b=black	9=much 9=severe
3 Vigor 9=most 4 Vine height in centimeters 5 Length of leaf in centimeters 6 Widtu of leaf in centimeters 7 Days to bloom	8 Maturity 9 Set	10 Type of Fruit s=slicer 11 Length of fruit in centimeters 12 Width of fruit in centimeters	13 Wart Frequency 14 Wart Size 15 Spine Frequency	16 Spine Color	col. IT Stippling Col. 18 Mosaic Col. 19 Powdery Mildew
	Col.		Col. Col.		CO1.

-													
		Pow. Mildew	0	0	0		0	0	0	0		0	
		Pow											
		Mos.	0	0	0		0	0	0	0		0	
		Stip.	8		ന		m	Φ	ω	0		Н	
	nes	Color	Q	Q	W		Q	M-d	م			۾	
	Spines	Freq.	Ħ	4-1	ជ		4-1	II	Ħ	m		4	
	Wart	Freq. Sz.	Н	Ø	-			日	티	Ø		Ø	
	Wa		Ħ	9-1	m		4-1	Ħ	日	E		4-1	
		x Wth.	5.2	3.5	7.0		3.0	5.0	7.0	5.5		9	
		Lgth.	29	36	33		23	56	22	77		14	
.S1.	or	Pick.	Q	a	Ø		Q	ρι	Q	Ø		ρ	
		Set	\sim	0	N		n	9	4	-			
		Mat.	7	0	ထ		Н	7		2		8	nes.
Days	to	Blm.	77	61	69		96	80	68	92		85	s spi
		Wth.	21	13	23	vine.	22	19	19	17		17	blac
		Lgth. Wth.	6 240 18	17	19	ate v	21	17	15	16	•	115 15	with
		Ht.	240	160	89	ermin	230	160	106	90	gene	115	gene
		Vig.	9	0	m	, det	6	8	5	4	ropic	a	ropic
		Orig.	Jap.	Jap.	Jap.	Dwarf	Jap.	Jap.	Jap.	Pol.	Pleitropic (N.Y.	Pleitropic gene with black spines.
		P.I. No.	279463	279464	279465		279466	279468	279469	285604		G-18172	

CUCUMIS

Cucumbers grown by Vegetable Crops Department, N.Y. State Agricultural Experiment Station, Geneva, N.Y., at the Vegetable Research Farm. Notes taken by Plant Introduction 8/25-27/70.

w	l=least l=poor	l=poor	<pre>l=very late l=few</pre>		y=yellow	s=slight O=none O=none O=none
1970 Descriptions and Evaluations	5=medium 5=medium	5=medium	5=medium 5=medium		c=curved o=orange p=pickler b=black	n=medium 5=moderate 5=moderate 5=moderate 5=moderate
1970 Descripti	Uniformity 9=very. Vigor 9=most Vine Length in centimeters Leaf height in centimeters	Leafiness 9=very Leaf length in centimeters Leaf width in centimeters	y 9=very early 9=many	in cer	Fruit snape s=straight Fruit color gn=green Slicer or pickler s=slicer Spine Color w=white	Stippling 9=much Mosaic Powdery mildew 9=severe Angular leaf spot 9=severe Downey mildew 9=severe
	Uniformity Vigor Vine Lengt Leaf heigh	Leafiness Leaf length Leaf width	Maturity	Fruit 1 Fruit d	Fruit snape Fruit color Slicer or pi Spine Color	Stippling Mosaic Powdery milder Angular leaf Downey mildew
	Col. 3. Col. 4. Col. 5.	Col. 7. Col. 8.	Col. 10.	Col. 12.	Col. 14. Col. 15. Col. 16. Col. 17.	Col. 13. Col. 20. Col. 20. Col. 21.

						-																													
Ang. Leaf	Spot	0	0	0	0	0	0	0	0	0		0	0	0		0		0		0		0		. :	0		0	0		0		0		0	
	M	7	3-4	0	0	0	0	Н	0			0	0	0		0		0		0		_		3-8	3		m	0		0		0		0	
	Mos.	0	3-4	8-9	0	_	78	ω	Φ	78		8-9	2-9	ω		9		\mathfrak{C}		5		ന		5	3		7	ന		ധ		N		0	
	Stip.	7	7-8	8-9	7-8	7-8				0			9	0		0		0	ູດ	0		0		0	0		0	7-8		0.		0		ω	
Spine	Co1.	M-b	ړم	۵	م	۵							Q	م		۵		Ф	fruit	۵		Q		Д	q		M-d	q		Q		0		р	
S1.	Pick.	dws.		r s&p	Q	Q							sl	ρ		Q		co.	color	.Ωι		Ø	fruit.	ល	Ŋ		Ω	ρ		.Ω		ល		Q	
	001.	gn-or	gn-or	gn-or										.0		0		0	iform	er.		×	on fr	0	0			0		0		> 3		0	
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Fruit	xDi am	7	5	.चं	5					<u></u>			77	5		4		5.	stem	5		_+	aic sy	5	5		m	4		≠		7		5	ter 1
[ir.	Lgth.	25	13	22	22	77				15			30	13		10		25	to to	17		25	S	20	25	oms.	23	18		17		30		11	y bitter
	Set	7	2	\sim	\sim	\sim	0		0	N			Ċ	5		\sim		9	erin	m		4	end;	2	2	npto	3.5	9		3		\sim		1-	emel
	Mat.	_	9	CA	m	2-3	2		2	3		a	ന	9		\sim		3-4	s tape	m		∞		9	1-9	eaf syr	\sim			2		\sim	ldew.	77	extremely
	Wth.	22	15	19	13	17	13	16	15	17		14	14	16		17		15	<u>ن</u>	16		16	to	19	13	ic le	16	15		15		20	ery mildew	15 ×	ldew;
T. 0.0	Lgth.x 1		_+	മ	_+	2	m	∞	10	\O		m	4	10				10	smooth	_	b0	S	tapered	മ	ŧ0	necrot	_			50	v.	ΩΙ	powde		mi
	Leg	21	14	18	77	m	13	H	H	ř		H	7	٦		17		15		17	oblong.	16	•	18	15		17	77		16	1der	22	છ	16	powdery
	Leaf.	2-9	2-3	9	m	3-4	\sim	m	ന	3		ന	m	2		2		2	; very	α	జ	2		3-4	3-4	mosaic	7	7		†	powdery mildew.	8-9	to both mosaic	4	હ્ય
ا م	Ht.	31	23	23	16	20	16	18	15	1675	spines	1 ()	* 1				0		mosaic;		egg-shaped		uniform			le to			mildew		powd		both		tolerance to mosaic
Vine	Lgth.	165	80	180	140	160	170	175	130	125	_	150	120	110		20	points	135	to	140	egg-	100		100	155	eptib	710	170	>	10	ice to	150	e to	09	e to
حز	. 1					4-5]					with no				fruits.	ω	sharp		tolerant		fruit:		smooth,	_	2-6 1	suscept	4-5 140		powdery	3-4 110	resistance		tolerance	4-5 160	ranc
	Vig	00	m	Φ	m	7	m	4 5		4	uit	m	m			(Y)	5 sh		tole	7 7				サ	5	very		7	to	m	resi	0	tole	77	tole
	Uni	<u></u>	9	5	2	m	M	3-4	3-4	m	d frui	4	m	34	green	m	has	9	bly	3-4	types	4		4	m	is v	3-4	7	tant	2		9		<u></u>	
	Orig.	ch.	Ir.	Ind.	Ind.	Ind.	Ind.	Ind.	Ind.	Ind.	Ribbed	Ind.	Ind.	Ind.	Pale	Ind.	Leaf	Tur.	Probably	Ind.	Two t	Tur.	Fruits	Tur.	Tur.	This	Tur.	Tur.	Resistant	Tur.	Possible	Tur.	Possible	Ind.	Possible
	P.I.No.	105340	137848	163213	161217	163218	163221	163222	163223	164433		164465	164679	164816		164819		165029		165509		167052		163304	169328		169352	169400		171603		171604		173889	

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F. Post 1 +	41 1																												•				•				
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	Leaf.	3-4	0	exce	3-4	m-	7	.01	3-5	2-3	2-9		46	•	N		3-4	·~		5	4	7	7		2-3	9		\sim	ry mi	2-9	· 0	7			has v	4 enino	11 d 0
5	100			aic;				mosaic.				fruit,		sance										ce.			ce.		owde		osai					ר מת	1 - 20 11
Vine	Lgth.	150	160	to mosaic	100	5		t 0	140	0	100		0+	disease resistance	0	defoliated.	125	10		140	120	110	125	tolerance		9	tolerance		tolerance to powdery mildew.	ī	to mosaic.	5	pickler	0.1	Tolerance;	gene for many small	Seal Control
À	Vig. L						4-2 30	ranc		3 90	5-6 1	very large	0+170	ase 1	90	folia	77	75	mosaic.	17	72	7	12	O	75	140		65	ance	175	ance	115	e pi			C L	*
		7 5	7 7	resistance	m r	- 6	† ∂ J-0	tole	7	m			9	dise							4	9	Φ	mosai	m	~	mosaic	m	tole	-	tolerance	#	42	4.	nosa. '('''	t t	
	. Uni.	[] -rr	6-7	resi	0 (7	.	ible	m'	9		plant	0	ible	9	lant	K)		sed b	1-9	5	5	4		7	2				2	ble	2	ctiv	رب در ا	ore mos		
	Orig.	Ind.	Tur.	0005	Tur.	Tur.	rur.	Possible	Tur.	Tur.	Tur.	One I	Ind.	Possible	Ind.	All plants	Tur.	Tur.	Stunted by	Tur.	Tur.	Tur.	Tur.	Possible	Tur.	Tur.	Possible	Tur.	Possible	Tur.	Possible	Tur.	Attractive	Tur.	Tussiole mosaic	Carries	
	P. I. No.	173892	1,74164	276	001017	Alotola	011		174172	174173	174177		175111A		175120		175121	680				~															
	P. J	173	7.17	246	761	17/2	1 · · ·		174	174	174		175		175		175	175		175681	175686	175	175689		175691	175692		175694	195	7 (204) T	1	175696	1	1.69511	176522	7	

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	Mos.	ω	0	7	0	m	C	2-3	0	α	0	0	0	0	0	1 W		N t	_	0	C	עכ	2	9	
	Stip.	0	0	8	N	0	α	0-3	8-9	ಷ	C	6	8	Φ	α	0 0		m=	1	ω	(5	ω	9	
	Spine Col.	Q	م	Ъ	Ą	W	,	<u>م</u> ر	Q			Д	م	×	ع	م د		ہ م	2	р	;	*	م	م	
S1.	or Pick.	മ	ρι	р	ı w	w	v :	ρ	, ρ,	ı		Д	ល	ta	٤	r p		נמ (ᅺ	D.	ı	ro.	Q	Q	
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	xDiam.	5.0	5.5	5.3	typ	6.0	slicer 5.2	5.3	9			0.9	5.0	14.8	ני	5.0	,	6.0 о	0.0	5.5	C L	7.6	9	4.7	
	Fruit Lgth. xD	19		16	pickler 21	20	en	17	17			20	25	23	9	17		22	2	17	ŗ	T.3	14	H	
	Set	9	stem 4	#	tive,	9	dark 6	4	<u></u>	pling	>	7	φ	6	~	10		m v)	10	C	- 0	9	٦	
	Mat.	5	ig to	#	trac	77		7	m	stipling.	V	7	4	9	Lr	トイ		40	n	4	نہ			N	
	Leaf Lgth.x Wth.	16	tapering 12	77	fruit attract 20 4	17	attractive	15	19	yellow	1	18	20	e. 19	75	15	•	16	spines.	17	nildew.	inconsnicuous	17	15	
	Leaf Lgth.x V	19		3.		20	coloring;	15	s. 19	except for	†	17	19	fruit; good mosaic resistance 8 110 7 19	ר	17.	,	16		17	powdery mildew	LS inconei	15	14 spines.	
	Leaf.	4	type leaf; long lobe with tip;	L spines.	Possible tolerance to powdery mildew, Fur. 5 8 150 8-9 20	4		, m	small spines.	r exce	ر م اد•	9	8	ic res	77	7	cowed.	رب <u>-</u>	clants have gene for many small	2	ංපි .				
			ong lok	Has gene for many and small Tur. 2 3 70	powde	tolerance.	has nice green uniform			attractive pickler	Very badly mottled by mosaic.		tolerance.	od moss	•		& furrowed.		for m		Possible tolerance to mosaic) ())		for many & small	
	Vine Lgth.	130	af; 1c	y and 70	150 to	tole 115	green 140	96	for many 6 130	tive	Led by			110	istand 70	125	h, warty,	150	roo	140	ice to		96	75 many	
	Vig.	4	e lea	r mar	lerar 8	saic 4	ice g	m		uttrac	mott]	9	saic 9	fruit 8	resi	ט גע	h, we	, O V	have	ω	leran	Sinni f	4	3 e for	
	Uni.	7		ne fc 2	le to	le mo	has r	2	s gene		adly	5	Te III	large 7	osaic			יט ע	lants	9	le to	have	9 0	3 3	
	Orig.	Tur.	Unusual Tur.	Has ge Tur.	Possib Tur.	Possible mosaic Ind. μ	Fruit	Egy.	Carries Ind.	Prolific,	Very b	Phil.	ch. 6 9	Very 1	Good mosaic resistance.	Ethio.	Fruits	Ind.		Bur.	Possib	Dyr. J	P. Rico 6	Afgh. Carries	
	P. I.No.	176952	177359	177363	179260	179676A	183056	183231	183445	183067	TOSSOT	188807	192940A	192940B	103406	193497	i i	197087		200818	108000			207476	

Ang.	Leaf	Spot	0		0		0	0		0		0	0		0		5 0	0		0	0		0	0		0	(0		0		0		0		0	
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		Mos.	9		m		m	2		m		m	2		0-1		0-2	0		2	0-1		3-4	0		N	(Υ)	2		2		2		m		~	
		Stip.			0-3		0	0		0		0	0		7-0		7-0	0-3		0	2-9		3-4	0		0	t	_	0		0		0		0		0	
	Spine	001.			Д		¥	م		Ф		م	م		Д		م	م	•	م	Д		р	D,		Д	0	WGD	M		р		q	type.	Q		ھ	
S1.	or	Pick.			ρ ₁		Ø	Q,		ρ		ρ	, w		day s		ເນ	ß	yield	ρ	, p,		ρ	Ω.		Q	i	ρι	p	6	Б		Q	German t	Q		Q	
		Co1.		ed.	0		Y	0		0		0	0		0		0	0	llent	0	0		0	0		0		0	;	>>	.0	•	0		0		0	
		Shp.		appeared.	Ø	fruit	Ø	so.		m		ល	S		Ŋ		ഗ	Ø	; exce	တ	w		Ø	w		w		va	ល		Ø	smooth	တ	similar	ಥ	•	Ø	
		Diam.		irst	4.7	green	0.9	6.3		1.7		5.5	4.8	it.	5.3		5.5	5.3	fruit	0.9	4.8		4.5	5.5		4.5	Ć	2.0	5.8		5.5	very	3.5	er, sir	5.5	colo:	4.8	
	Fruit	Lgth. x		flower f	3.5	dark	Q	N		9		0	0	on frui	33		2	2	ks on	4.5	8		-	8		2	t	7	1 1 1 1 1		9	color &	0	pickle	†	uniform	†	
		Set. Ing			7	smooth		22		16			19	symptoms	23			22	cra		18			18		12			ms on the state of				10	tive	-	. 0	14	
		Mat. Se	0	female	5	tive, s	4	3		3 4		9 9	3	Symp	<u>_</u>		7	5	ski	7 7	3 5	dew.	S	9 +		3 3		7	symptoms 3 3		9 #	orm green	3	attractive	m	s smooth	8	
		Wth. Ma	17 2	-25-70	J.	rac	~						2	mosai	6				olor			milde					or.		ಲ ದ			ii.f		ry	91	fruits	10	
	Leaf	×	H		7	-	14	17	osaic.	16		18	7	- 10	19		ř	17		7	16	Wdery		18		15	0				٠.,	• •	17	. 0		nes	H	nes.
		Lgth.	17	flowers;	77	spines;	15	18	of m	16	ll spi	19	17	11 spines	19		18	17	lark g	17	15	od &	16	20		15	gree	07	spines;	11 spi	16	ll spi	16	ll spines		ll spines	15	ll spines
	1	Leaf.	\sim	male	4	small	5	9	in spite of mosai	8	& small spines	7	7	& small	9		6	8	good dark green	m	_	mosaic	m		aic.	m	niform	4	small 4	& small spines	7	& small spines	4	& small	7	& small	2	& small
	Vine	Lgth.	80	Has great abundance of male	85	for many small	95	115			for many	100	100	for many	130	rpe.	135	125		80	175	Possible tolerance to mosaic & powde	90	215	Good resistance to mosaic.	90	Many & small spines; uniform green			many			120	for many		for many	52	Carries gene for many
	-	Vig. I	3	bundar	₩ #	e for		7	Producing good crop	~ ~	e for	9	7	e for		uit ty	8	8	rough & warty;	m	ထ	leran	m	+6	ance 1	7	l spir	4	gene for many	Carries gene for many	5	Cor	~	e for	m		m	e for
		Uni.	4	eat a	m	sa gene	9	9	sing g	4	es gen	4	7	es gen	3	ole fr	-	_		4	2	ole to	7	0	resist	7	k smal		ω ~	es gen	\ <u>\</u>	es gen	4	613	7	es gene	7	es gen
		Orig. Uni. Vig.	Afgh. 4	Has gr	Ir.	Carries	Ir.	Ir.	Produc	Ir.	Carries gene	Ir.	Ir.	Carries gene	Grc.	Variable fruit type.	Jap.	Jap.	Fruits	Afgh.	Ind.	Possil	Tur.	Ind.	Good	Pol.	Many	I.F.	Afgh. 1	Carri	Afgh. 5	Carri	Afgh.	Carri	Afgh.	Carries	Afgh.	Carri
		P.I.No.	211728		211977		211978	211979		211983		211984	211986		212059		212233	212233		212599			212985	4155		217946	2008 10	0000	220171		228338		220789		220790		220791	
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•	a)	- 100	W&b		, م	ے	Q		Q	٨	م ،		Q	Д		,Ω		Q	Q		p		p		Q		Д		م	W		W		W		م		م	¥	
		-1	S & D		d	а	Q		Q	, F	4 P		ρ	, P.		දැන් ස		Ω	Q.		ω		ល		р		ഗ		ρ	ຜ		Ω.		ಬ		Q		Q	S)	
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	t	DI am.	5.1	,	0.0	0.9	5.5		5.0	4.5	. W.		9	5.5		5.5		6.0	5.5		4.8		5.2		5.6		5.3			5.8		5.0		5.5		5.5			5.3	1:
1		rgtn. x	20	(78	16	14		17	16	15		16	17		17	uits.	18	20		21		22		13		20		15	35	een.	30		23		17		15	21	on fruit
	-	Set	7		5	2	\odot		7	~	1 5		9	77		7	en fr		2		_		ω		ω		Φ	٠ 0	\sim	_	8 F	4		ω		2		7	2	symptoms
	76.4	Mar.	4		4	ന	4		m	~) rV		2	· -		m	n green		4		9		9		2		4	fruits	m	2	y; dark	7		m		\sim		e	\sim	
1	F	wtn.	19		15	16	16	,	15	10	15			17	type.	17	smooth	54	13		16		18		15		22	arty	13	16	warty	17		18		19		19	19	mosaic
1	W]	rgtn. x	19		15	17	19	spines	16	19	15	spines	_	18	plant	17	spines;	22	18	powdery mildew	18		18		17	spines.	22	rough & w	15	17	; quite	16		17		18	color.	20	20	green;
	6	Lear.	ω	tolerance.	2	2	9	& small	4	~	な	& small	4	7	variable plant	2	small s	9	15	powdery			6	tance.		311	∞		4	Φ	fruit; ridged fruit;	9	tance.	00	resistance.	7	smooth & uniform green col	4	9	& uniform
	Vine	Lgtn.	130	toler	130	120	90	for many	80	00	70	for many	130	110	type, v		for many	160	120	ce to	140	o O3	175	resis	09		125	to mosaic;	80	175	ridge	100	mosaic resistance	125		85	mifor	90	90	
		V18.	ω	aic		2				c	14		- L I		fruit t	1	e for	~	9	tolerance to	0		0	osaic	9	e for	ω			ω	ruit;	9	osaic	ω	osaic	7	th & 1	7	9	smooth
		Un1.	\sim		m	5	7	es gene	4	7	- 4	s gene	0	m		m	ss gene	7	m		9	reen	<u></u>	ent m	7	ss gen	<u></u>	resistance	4	7	long f			-	ent m	77		4	5	very
		Orig.	Kor.	Excellent	Afgh.	Ir.	Ir.	Carrie	Ir.		Afgh.	Carries	Ir.	Ir.	Variable	Ir.	Carries	Afgh.	Phil.	Possible	Kor.	Dark green	Kor.	Excellent mosaic resistance	Ir.	Carries gene for many	Ir.	Good r	Ir.	Jap.			Excellent	Jap.	Excellent mosaic	Ir.	Fruits	Ir.	Ir.	Fruits
		P.I.No.	220860		222099	222243	222244		222720	222782	222783		222985	222986		222987		223437	223841		224668A		224668B		226509		226510		227013	227207		227208		227210		227235		227664	228344	

Ang.	Leaf	pode	0		0		0	-	0		0		0	0		0		0	0		0		0		0	c	>	0		0	•	0		0	C	V
		티	N		Н		0		3		4	٠. ٠	·01	0		0		0	N		N		2		0	C		0		Н	(0		N	C	ν
	i i	MOS	0		0		2		0		m		m	m		m		‡	N		2		m		2),	r	2		0	(0		m	c	n
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	a)	100	Q		മ				م		م		۵	d%w		Q		۵	۵	spines	Ω		م		¥	422	3	w&b	ctive.	d&w	ď	D & W		W	کے	Ω
		LICK.	Д		Д				ρι	1	Q	l	Р	р	•	ß		ρ	ρ	small	Д	fruit.	ρ	1	to	200	3	ഗ	attra	Ŋ		ഗ		w	í	<u>ವ</u>
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	2	oup.	Ø		Ŋ		Ø		Ø		Ø		מו	ល		Ø		m	ß	for me	ຜ	smooth	ത		t/3	U)	W	types,	03	c	SCW		ß	('n
	t-	LT SH	5.5		5.5		_		5.3		16		6.2	5.2		5.5		4.3	9	gene	5.5	shape	5.5		6.2	0	b 1	5.5	cing t	5.5		2.0		5.5	n	2.0
1	킌	ле сп. x	15		17		25		14		2		15	11		18		16	14	color;	13	color &	13		23	[0	i	23	sli	25	(17		20	L	CT.
	,,	nec T	œ		2		4	areas.	2		2		2	9		9		*	7	pper	<u>-</u>	form c	9		_	7	_	80	symptoms		_	7		5	. (5
		Mac.	2		2		m	een ar	5		m			9		2		\sim	8	are cc		uni			_+	\ <u>C</u>)		af	2		γ)		m	lobes	_
						rusted.		gr	1											and a		uite	13 5						MO						m	•
(Leaf	×	22		16		16	dark	15	pe.	18	0	13	16	ers.	1.5		18	14		13	- "			16	W.	, te		• 0	17	į, r	T)		14	have	
,	The	150 Dil	50		16	cks 8	5	ised	15	en ri	18	spine	14	16	pick1	<u></u>	een.	18	7	ed sk	17	spine	14	gene for many & small spines	17	milde L	milde	<u></u>	osaic	18	L	17	nce.	9	ruits 6	D
		1	2			cra	15	as ra	7	ed wh	~	nall	7	-	oval	-	rk gr		14	crack	-	mall	7	mall	~	dery	dery		to m		ype.		olera	-	Jenic f	⊣
		regi-	7		₽	olor	9	s; h	4	rack	3	ଞ	S	er.	a11	-	m da	9	4	ed,	m	හි	N	8	ω	Mod 9	Mod	0	rant	9	ng t	†	ew t	_	C ; S	`
i	Vine	ب 5	125	ler.	85	oer c	135	pensi	100	S 2	01	many	100	iamet 70	s; sm	140	nifor	140	90	rust	55	many	55	many	150	se to	ce to	150	tole	125	slici	200	mild	175	nosai	2
ľ	i &	50	7	pick.	9	[doo	9	alou	5 100	colo	07 4	for	5	गंह क	eave		h, u	9	5	have	→	for	3 55	for	8 150	erance 7	eran	0	eld;	9 .	ive	7	dery	∞	ave i	`
	***	> 1 1	_	shaped pickler.	7	uits,	ന	cant	4	pper	4	gene	→	it; 7	een]	9	smooth, uniform dark green.	9	2	uits	_	gene	2		7	e to]	e to]	8	nt yi	5	tract	7	e pow	5	nts h	
		OFIE UIII. VIE. LEUII.			1.	fr		Melon - cantaloupensis; has raised	Afgh.	Skin copper color & cracked when ripe.		Carries gene for many & small spines		Big fruit; big diameter. Thail. 7 4 70 4	rk gr	Thail. 6 7 140 7 17 15	Fruits	W.Pak. 6	Afgh.	Ripe fruits have rusted, cracked skin		Carries gene for many & small spines		Carries	Neth.	Possible tolerance to powdery milder Neth. 6 7 135 6 1 $^{\rm L}$	Possible tolerance to powdery milder	Neth. 8	Excellent yield; tolerant to mosaic	Neth. 5	Very attractive slicing type.	Mecn.	Possible powdery mildew tolerance.	Neth.	All plants have mosaic; some fruits	
			Can.	Good	Can.	Rik	Tur.	Mel	Afe			Car	Ir.	Bie	Dai		Fr			Ril	Ir.	Car									Ve	2 1				
	- T	r. I. INO.	229808		234517		245735		246930		248778		249550	249561		249562		250147	251028		251519		251520		255933	255934		255935	,	255936	055037	277931	1	255938	257286	77.70

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	Ē	티	ω	0		4		m	3		⇉		0	2		0		0		0		0		ന	m		N		N	L	^	ন		0	
	- J. W.	MOS	0	0		0		4	0		~		2	 1		a		0		2		0		0	0		0		0	C)	C	•	0	
	1	Stip.	<u>-</u>	0		_		77	N		<u>-</u>		ω	1		ω		5		9		∞		7	ω		2		_	a	0	0	`	7	
,	(1)	COT	Q	۵		م		۵	Q		م		Μ	م		d&w		w&b		Q	ildew.	*		ر م	w&b		w&b		W&b	Ļ	۵	د	•	Q	
S1.	Or -LC	LCK.	Q	Q		Д		Q	ρι)	ρι		Д	Д		Q,		pg		ρ	powdery n	ശ		ρί	മ		ľΩ		ល	t	מ	V.		Q,	
	5	201	0	0		0		0	0		0		7	0		yo		yo	dew.	0		· >>		0	yo		Ŋ		×	(0	C	,	0	
	5	cub.	co.	മ		ഗ		Ø	ഗ		യ		Ŋ	മ		Ω		r)	mild.	Ω	nce to	ಬ		ഗ	ത		ပ		m	t	מ	c		ຜ	
;	·~!]	x Diam.	5.2	2		4.7		4.5	5.2		5.4	racks.	2.0	5.3		5.3		5.0	powdery	5.0	tolerance	4.8		5.3	†·†		2.0	٠	5.0	L) · (4.7	cast.	175	
1	国	Lgtn.	17	H		17	다	13	16		17	white c	0	13		16		18	mosaic &	12	possible	15		13	21		25	& warty	22	u		26 26	bluish"	10.5	
	4	Set	46	4		ω	Som C	-	<u></u>		_	Ť.		2		ω		ω	to mo	9				#	Φ		Φ	ged	\sim	L			have "	4	
	700	Mar.	7	m		m	ice to	Н	7		2	٠	4	2		4		m		9	cracks	<u></u>		5	3-6	ce.	2	l, ridgo	m	c	7	7 mu			
	1	x wtn.	16	13		19	esistan	16	18		20	디	14	13	cks.	13		15	tolerance	18	white	16	W.	19	23	tolerar	18	urrowec	50	٠ د	1 (y; green 20	. 4	<u>, </u>	
8	0	Lgtn.	16	13	Carries gene for many & small spines	21	& yield; possible resist	15	16	11 spine	3 125 7 20	are copper color & skin	14	14	lite cra	USSR 4 8 155 8 19 19	rance.	USSR 6 9 155 8 15	ossible	4 70 4 16	Ripe fruits are copper color & have	16	Possible tolerance to powdery mildew	19	23	leaves, possible mosaic tolerance.	17	fruits furrowed	21	& warty.		8 warry			
	ن () ا	Leai.	0	2	& smal	0	d; pos	7	0	& sma]	-	color.	m	4	r & wh	ω	w tole	ω.	ast; F	7	· color	7	powder	2	∞	sible	0	ast; f	7	dged,	0 0	fluged, luffowed, 8	furrowed; ridged,	m	
9	Vine	Lgtn.	130	75	many	165	& yiel	120	135	many	125	copper	40	55	r colc	155	milde	155	ish" c	- 01	copper	80	ce to	140	165	sod 's	150	"bluish" cast;	125	grooved, ridged,	T+C	125 125	wed: r	85	
		V18.	45	m	e for	46	igor	2					m	2	coppe	ω	wdery	0	"blu	#	are	m	leran	7	0	leave	0:		2	grooved,) (1 "	130 8	furro	m ;	ruri
		Cun	ω	4	s gen	ω	ent v	#	ω	s gen	7	fruits	_	7	ipe,	4	le po	9	have	74.	ruits	. 9	le to	9	က		<u></u>	have	_	are	j (9	are		
		Ur1g.	Ch.	Ir.	Carrie	Sp.	Excellent vigor	Sp.	Neth.	Carries gene	USSR		USSR	USSR	When r	USSR	Possib	USSR	Leaves have	USSR	Ripe f	USSR	Possib	USSR	USSR	Very large	USSR	Leaves	USSR	Fruits	Thurst + C	USSR	Fruits	Fr.	very small
	} -	F. L. NO.	257486	257494		261608		261609	262990		263046		263047	263048A		263045B		263049		263078		263079		263080	263081	(263082		263083	SKROBA	10000	263085		264226	

Ang.	Leaf	Spot	0	0		0		0		0		0		0	0		0		0		0		0	C	>	0		0	0	0		0		0	0
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		Shp.	ξΩ	മ		ß	slic	ß		Ø	reen	ſΩ		ß	Ø	one ha	ξΩ	. 0	ß		Ø		ß	(ם מ מים	, W		Ŋ	Ø	O	greer	60		ß	C
	tt.	Diam.	5.2	5.5		5.5	ctive	5.4		5.5	ark g	5.5		5.1	4.8	oped:	5	leaf	5.4		4.7		5.5	a i	ר הפת	5.2		4.8	5.0	5.2	dark	5.2		0.9	
	Fruit	×	١٥	~		0	attra			~	e, d	+		_	10	3-1	15	lobed	10		10		10	L	3-10	1		١٥	m	\O	Ó	0		10	-
		Lgth.	16	28		20	ics	21		23	eranc	14		H	15	are	H	- 3-	15		15		15	Q	Jarre C	13		16	18	5	ractiv	20		15	-
		Set	-	9		9°	mosa	5		Φ	c tol	9		5	9	eaves	9	leaves	9		<u>√</u>	•	-	ed.	- tue			7	4	4	& att	<u></u>		⇉.	
		Mat.	m	4		m	se to	5		m	mosai	5	point	#	4	Many 1	9		9		m	1g	#	3 lobed	ا لا م (د	1 2 ₁ [ന	m	2	oth	m		ın	(
	4	Wth.	16	19	•	17	eranc	17		18		15		17	17	•	13	• 6	14	•	16	dery mi	17	1 4		14		18	18	18	y sme	138		17	(
	Leaf	54		ruit.			d tol		ildew		possi					pines		ildew		pines		powde		leaves	הית י ת)					s ver				
		Lgt	17	11 fu		17	, goo	17	ry m	18	st;	15	af W	16	18	111 s.	14	ery m	15	311 S	16	ر ان ع	18	ing	דים הם רומ	16		18	18	18	fruits	19		21	-
		Leaf. Lgth.	_	& sme	г.	_	plants, good to	9	powde	0	- be	9	ed le	5	2	& sme	4	powde	~	& smg	9	mosaj	_	taper	ر م م	_	nce.	m	5	77	• @	6		70	(
	Vine	Lgth.	120	for many & small fruit 15 7 19	plants good slicer.	20			Possible tolerance to powdery mildew	50	Nice dark green slicer - best; possible	0	Some plants have 3-lobed leaf with	25	0+	nany	Ger. 3 4 120 4 14	Possible tolerance to powdery mild	0	Carries gene for many & small spin	30	Possible tolerance to mosaic & pow	10	Most plants have long tapering lear	מממע	USSR 8 7 120 7 16	tolerance.	75	100	110	tem e	50	leaf.	75	7
	Ϋ́	8: 	9	for ma 8 155	s poos	7 150	Some	Fr. 6 5 125	rance	9 120	en s	9 80	lave (5 125	7	for 1	7	rance	9	for 1		ranc	-	lave	for 1		aic t		5 1		to s	6 9 150	een	2	-
		Orig. Uni. Vig.	0	gene 8	nts g	, [leaf	u \	tole	O	k gre	9	nts h	5		gene	~	tole	~	gene		tole		nts 1	grana		Possible mosaic				aper		dark green	2 (
		S Ch	7	Carries 4	pla	1	gose	9	sible	2	dar	m	pla	5		ries	m	sible	9	ries	1. 6	sible	R 6	t pla	1 0 L	R S	sible				Fruits t		O		1
			मि.	Carr Fr.	Some	Fr.	Roug	다	Poss	Fr.	Nice	Ger.	Some	Ger.	Ger.	Carı	Ger.	Poss	Ger.	Carı	Neth.	Poss	USSI	Mos.		USSI	Pos	Ch.	Ch.	N.Y.	Fru	Braz.	Large	Ind.	-
		P. I. No.	264227	264228		264229		264230		264231		799792		599492	9994		264667		264668	(265887		267086	480490	-	267088		7742	7763	747797		267745		267746	0100
		ما	26	26		26		26		26		26		26	26		26		26		26		26	0	1	26		26	26	26		26		26	

60	af	ot	0	0		0	0		0	0		0		0	0		0			0	0	(0	C) C		C) (> 0	0	•	0	C)
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S1.	or S	Pick.	Q	P		ρι	Q			ρ		ф		ρι	ຜ	paer to	ω	fruit,			Ø '	end.	Ø	0	ග් රුන	a	۶	24 1	Q ₁	Д		Д		Д
02		Col. 1	0	0		0	0		ы	0		0		0	≻	ts tp	0	smooth		уо	>	plossom			yo		()	0	yo		0		0
		Shp.	Ø	ω	pe.	ω	ល		ß	Ø		တ		m	ໝ	frui	၁ & င	very sm		മ	၁೫၄	at blo	ပ		ω (ย	O	ו מ	ល	ഗ		ഗ		ល
		Diam.	4.3	0.9	rhen ri	5.0	14.8		11	5.3		4.8	•	5.1	5.5	fruits;	5.4			5.2	4.8	iping a	2.0	(V . V	2.0	C L	7.0	, v	0.0	(α· 4	L	2.0
	Fruit	Lgth. x	I	12	skin w	14	16		22	14		14	spines	18	22	green 1	25	features:		17	20	no stri	35	0	22	22	ני	7	† T	20		12	mosaic	12
		Set L	4	77	cracked	4	6		10	9		9	small	ထ	9	dark	_	rent		0	5	Z	9	ι	Λ t	- r		<i>y</i> 0	α V	9		N	from	2
		Mat. S	9	m		2	ω	Ldew.	\sim	9		2	many &	_	m	form	4	di fferent		9	2	te spi	m	(n	2	Lirowe	ו ע	_	m		9	orted	9
	٥.	Wth.	20	15	colos	16	19		16	13		17	for ma	21	19	very un:	19	saic; 3		16	14	t, whi	17	!	7 N	Ly Po	ed & I	7,	7e	18		13	t dist	13
	Leaf	Lgth. x	19	15	copper	16	19	& powder	16	14	spines.	18	s gene	23	20		20			16	17	n frui	19	1	21	19	; riag	17	16	16		13	e frui	14
		Leaf. L			ines;			saic	Ind. 2 6 140 6 16				carries gen			leaves; long petioles;	+6	tolerance to powdery & mc				gree					green						; some	
	ē		m	5		(E)	cracked skin. 8	to mo	9	7	for many & small		color; c		7	long	0	to po			9	uniform	9 0	frui				0 1		0		(*)	fruit;	()
	Vine		9	50	& small	120	cked 150	ance	140	lon.	man	200		- 17	100	aves ;	120	ance		120	95		110		145	120	0	117	14,	150	fruit.	75		82
		Vig.	c	4	Gene for many &	二		toler	9	Definitely melon.			green	5		en les		tole	color.	7	9	features:	9	symptoms	∞ α	0	e uni	To	Σ			m	symptoms	#
		Uni	K. 4	K.	for	#	When ripe,	ible	2	nitel 6	p(dark	ω.	7	gree	8	ible	t col		m :			c)	ا ۱۰	•	ts ar		р. Ж	h. 3	Very large	h. 5		2
		Orig.	W.Pak.	W.Pak. 3	Gene	Ind.	When	Poss	Ind.	Defin Meth.	Carry				Eng.		Eng	Poss	fruit	Bing.	7)	Three	Netn.	Mosaic	Neth.	Meth.	Fruits	Czecn.	Czech.	Czech.	Very	Czech.	Mosaic	Swe.
		P.I.No.	269481	269482		271328	271331	1	271335	271753	77-1-1	271754A		271754B	274902S		2749028	Possible		2749025	275410		275411		275412	Z.L.L.4T	000000	203099	283900	283901		283902		283699

Ang.	Leaf	Spot	0	0		0	0	0		0		0		0	0	0	0	
		PM	5	0		0	=	2		_		4	9	N	~) (M	0	
		Mos.	2	0		0	0	N		0		0	tolerance	0	~	+	ထ	
		Stip.	9-0	0			0	0		0		2		9-0	0	-	- 2	
	Spine		b &w	W	mildew.		M	¥		Q	end.	M	mosaic	u&b	م	Q	Q	
S1.	or	Pick.	p&s	ເນ	powdery	•	S & D	w w		Д	toward stem	κλ	possible	ಬಹಿದ	ł W	Ω	ρ	4
		Co1:	oy	>	હ્ય		>:	>		0		>	2.7	0	>	, 0	Q	
		Shp.	ಬ	O	mosaic		Ø	ഗ		ഗ	ricted	ပ	green	S	ß	Ø	Ø	
	Fruit	x Diam.	5.2	5.3	to		5.3	5.5	ymptoms.	6.4	; consti	5.0	rery dark	5.2	5.1	2.0	7.5	
	Fr	Lgth.	14	21	tolerance		15	20	mosaic s	15	spines;	35	8	19	17	15	10	
		Set	2	5	ible	0	7	9	show me	4	small	0	leaves	4	9	9	4	
		Mat.	5	m	possi	7	9	m		7	୦୪	m	green	77	5	0	†	
	af	x Wth.	13	16	spines	16	15	19	orm color,	56	for man	Ch. 8 9+ 165 9 21 20	miform	18	15	17	14	skin.
	Lea	Lgth.	18	16	r large	17	16	19	l, unifc	UAR 3 7 125 7 26	sa gene	21	stery; r	18	15	USA 6 7 125 8 17	13	When rive, brown, 3-lobed, cracked
		Leaf.	4	7	very	<u>د</u>	9	9	em end	7	arrie	0	SW SS	9	7	ω	2	bed.
	Vine	Lgth.	145	190	and with	Austral. 4 5 100 5	80	100	to ste	125	ruit,	165	ridged,	96	100	125	125	m. 3-1c
		Vig	10	∞	tem e	5	9	9	ering	_	een f	46	ved,	9	5	_	9	brow
		Uni.	n	9	to s	17. 4	9	9	tape	\sim	m gr	ω	groo	3	m	9	7	ine.
		Orig.	UAR	UAR	Taper	Austre	Leb.	UAR	Fruits	UAR	Unifor	G.	Fruit	USA	USA	USA	Pak.	When 1
		P.I. No. Orig. Uni. Vig. Lgth. Leaf.	288237	288238		289698	293432	296120		296121		302443		304803	304804	304805	330628	

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P.

LYCOPERSICON ESCULENTUM

Seeds treated with Arasan 75. Seeded in greenhouse 4/14, 36 seeds per accession. Pricked off 4/29, set in field 5/21, 22, & 27, 2 plants per accession. Spacing 8' x 2' + 6'. Fertilizer 640 lb. 10-20-20/A. Notes taken 8/6, 11, 13 & 14/70.

									pl=plum	ı						
l=not uniform	1=prostrate			l=very late		l=light			c=curved	o y	1=orange	1=orange	l=few	l=little	1=little	l-few
5=medium I=Indeterminate	5=medium			5=medium		5=medium			f=flat pr=pear	GS=green shoulders	5=medium red	5=medium red	5-moderate	5=medium	5=medium	5=medium
9=very D=determinate	9=very vigorous			9=very early		9=heavy		S	g=globular ch=cherry f=flat pr=pear	UR=uniform ripening	9=dark red	9=dark red	9=very many	9=much	9=much	9=many
Uniformity Habit	Vigor	Plant height in centimeters	Plant width in centimeters	Maturity	Days to Harvest	Set	Fruit Depth in centimeters	Fruit Diameter in centimeters	Fruit Shape	Fruit	Exterior Color	Interior Color	Number of locules	Radial Cracking	Concentric Cracking	Amount of Fasciated Fruit
m ≠	5	9	-	ω.	0	. 10	117	. 12		, 14		. 16			. 19	. 20
Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.

38																																				
Amt.	Fasc.	Fruit	0	(0		0				0	77		0	9		2-9		4	<u></u>	-		0		_		H		2		0		0	c	ω ω	
	Cracking	Conc.							ત								9		m	•	5				Н		N		~		m			t	クユ	
	Cre	Rad.		1					2						N		2		m	9					H		N		~		ŧ			ſ	⊣⊅	
	No.	Loc.	m	(n		N	,	9		7	4		ľ	<u>_</u>		2		5		ω		5		ω		2		6		5		\sim	c	ν -	•
	Color	In.	r m-d	> 1	ر		2		4		2	4		2	7		<u></u>		9	3-4	7		9		8		N		2		m		4	(n m	
	,	图	m y		٥				Ŕ		9	2		9	9		9		5	, L	9		5		7		4		9		7		5		4 9	
		SS al	ur		83		<i>α</i>		gs		ur	ur		gur	a nr		nr		ur	ur	ur		c ur		ur		ur		nr		ur		nr	pr	ur gs	
		Shape	50		٥		C;		50		භා	80		200	t of		4-1		4-1	G-4	4-4		H		4-1		ಶು		4		80		pl	.સ લ	₩ ₩ ₩	ರು
	Fruit	Diam.	3.9	/70.	2.5		2.3		5.8		4.5	5.4		5.0	8.1		3.2		4.1	6.3	7.6		2.4		6.8		3,3		0.9		5.9		3.0	0	ە ق ف	
		Depth. x	3.5	pe_8/17	4°T	8/17/70	4.3		†		0.4	3.8		4.1	4.3		2.1		3.6	3.4	2.1		3.4		3.3		2.5		3.0	.02	4.1		4.6	c	ာ ထ က က	
		Set D	ار.	e ri		fruit	-		<u></u>			2		9	9		<u></u>			3-4			2		#	.07	2-9		9		9		45		7-4-5	
Days		Harv.	134	1;tt1			134		134		134	134	les.	134	134		134		134	134	134		134		133	1	133		133	yet 8,	133		134		134 134	
Ä		Mat. He	2	ery		cia	m		2		2		locules				5			m				ە دىـ		be-	. ·		~	ripe 1	10				ν ₍ ν	
	ı		· ·	70;		e fa							ped										, ,	ruit	0				0		~ `					
	int	x Wth.	200	ω -	200	little fas	190		205		180	130	poorly developed 1	150	240	803	205		210	190	200		210	all f	210	r little	220		210	e fruit	200		250	(200	
	Plant	Ht.	110	fruit	100	5	95		100		80	95	rly	90	90	plants.	85		90		55	s S	7-8 100	ery sn	85	very	70		75	little	70		96		2,8	
		Vig.	7-8	ripe	0-)		ω ,	1/70.	2	1/70.	7-8	7-8); poc	ω	ω	leafy			7-8	_	<u></u>	leave	7-8	e; ve	ω	11/70;	-	./70.	5-7	very	1-7		ω	ı	7-0	
		Hab.	H	No	-1	8/1/	⊢-	8/1	H	8/1	⊢ ⊣	⊢	17/70	Н	H	ery	, 	•	H	ರ	þ	ored	H	t ril		t 8/1	Н	8/11	Н		H	ize。	H	1	⊢	ize.
				9. 0.		ripe		ripe	S	ripe			t 8/			W 9 V		fruit.				col		frui		e ye		ripe		nt s		it s				ार इ
		Unif.	<u>-</u>	'Primrose Gage.' No ripe	_	little ripe 8/17/70;	∞	little ripe 8/17/70.	2-6	little ripe 8/17/70.	<u></u>	<u></u>	frui	Chile 8 I 8	7-8	Very wide row, very leafy	5	small f	9	5	-	Fairly light colored leaves.	9	little fruit ripe; very small fruit.	5	No fruit ripe yet 8/11/70; very	7	Very little ripe 8/11/70.	#	Variable plant size;	m	Variable fruit size.	7	leafy.	⊅ W	Variable plant size
		Orig.	: 25	imro				y 11.			. 2	•	ripe	le l	٠	y Wi	េដ	y sm	್ಷ	ಶ	=	rly		y li		frui	더	/ li	7	iabl	~	iable	~	/ lea		able
		Or	India	'Pr.	USSR	Very	Ger.	Very	Braz	Very	Braz.	Tur.	No	Chi	Guat.	Ver	Peru	Very	Peru	Peru	Peru	Fai	Peru	Very	Peru	No	Peru	Ver	Peru	Var	Peru	Var	Peru	Very	Bol.	Vari
		P. I. No.	94158		102724		108246		117897		119105	120266		124037	124162		126419		126424	126428	126913		126922		127795	,	127803		127804	(127808		127810	00000	128232	

Amt.	Fruit	ω	,40;		2		∞		∞		m			17						m	N		<u></u>						0		7			
Cracking ng	Conc.	Н	yet 8/11/						~		Н									m			٦							·	r1			
2	Rad.						4		H		n			2		H				Н			0		N				Н		\sim			
	Loc.	<u>-</u>	fruit ripe	77/70	\sim		9		-		2	\sim		0		2		N		7	5		7		2		\sim	.01/8	_		13			
ر در کران در کران	In.	1 y	0	ω	l m y		4		y m c	•	7	\sim		2		77		2		9	J Y		7		2			8/13	5		8			
E	国国	ur d y	orm.	some flowers	gs m-d	y&0	ur 5		gs m o		gs 6	9 .n		gs 6		nr 6		gs 6		gs 7	ur y&o		gs 6		ur 6		ur 1 o	blooming	ur 6		nr 6			
-	Shape (ال :	e unif	some	٥		f. L		4		~93			free g		n B		pr g	01	ද සින්ස			fæg g		flag u		ch u		f.		f&g u		ಕ್ಕು	
戸かい。七		8.0	plants quite uniform.	plants;	4.1		5.5		5.6	d locules	5.2	4.6		6.3		5.5		0.4		6.5	4.5		7.7		4.9		2.6	s, still	6.7		8.9			/10.
[±	×	:	plant							lope																		fruits,						8/17
	Depth	4-5 4.5	- large	fasciation on small	5-6 3.7		2.8		3.3	te deve	3.7	3.0		3.7		0.40		4.5		7 4.0	3.2		4.5		6.49		2.2	small	4-5 4.5		6.0			flowering
	Set			tion	5-(2		5	qui		2		5	.07/	2-6		<u></u>		29	9		2		2-6		<u></u>	for a	7-1		9	•	4	- 1
Days	二二	134	uni form	fascia	134		134		134	17/70;		133		133	\$ 8/13	133	0.	133		133	133		133		133		133	seeds	133	3/70.	132	/13/70	155	still
	Mat.	2			m		m		3	pe 8/	5	m		5	t ripe	5	/13/70			_	5		9		2		5		'n	s 8/1	7	ipe 8		7/70,
Plant.	x Wth.	80	ants q	set &	200		220		170	tle ri	190	170		200	e fruit	220	uits 8,	210		180	180	ruits.	200		160		200	3/70, 1	230	fruit	190	not r	240	it 8/1.
Д	Ht.	50	11 pl	ttle	270		80	1/70.	90	y lit	96	70		75	littl	80	pe fr	20		50	80	ipe f	80		70		90	s 8/1	75	ripe	100	ority	100	e fru
	Vig.	3-7 50	s; sma	ts; li	7-8	.01/11/	7-8	pe 8/1	F	0; ver	7-8	6-8		ω	ants,	7-8	Few ri	7-8	es.	7-8	6-8	few r	7-8		_	.01/	8-9	fruit	8-9 75	y, few	7	t, maj	6	no rip
	Hab.	Н	plant	l plan	H	yet 8/	Н	uit ri	н	8/11/7	H	Н	70.	Н	afy pl	H	0	Н	March	Д	Н	size,	H		H	s 8/13	 - 	w ripe		& leaf	Н	d frui	Н	ants,
	Unif.	m	y small	on smal	<u></u>	t ripe	9	ttle fr	9	t ripe	_	2	8/13/	7	rge, les		Ecarla!	5	lie des	∞	5	e plant	2	cules.	9	e fruits	_	afy, fer	-	Very vigorous & leafy, few ripe fruits &	_	asciate	-	Large leafy plants, no ripe fruit 8/17/7
	Orig.	Bol.	Six very small plants; small plants quite	no set	Bol.	No fruit ripe yet 8/11/70.	Bol.	Very li	Bol.	No fruit	Argent. 7 I 7-8 90 190 5	Chile	Few ripe	Peru	Very la	France	'Mikado	France	'Mervel	France 8 D 7-8 50	Col.	Variable	Argent. 7 I 7-8 80 200	Poor locules.	Iran 6 I 7 70	Few rip	India	Very lea	Tur. 7 I 8-9 75 230 3	Very vi	Leb.	Large fasciated fruit, majority not ripe	Ohio	Large 1
	P.I. No. Orig. Unif. Hab. Vig. Ht. x Wth. Ma	128234			128248		128254		128269		128291	128597		128640		128885		128886		128890	129101		129138		148656		163245		175776		181778		205040	

Amt. Fasc.	Fruit			0															Ŋ	r	-1	_	-1	Н											
Cracking	Rad. Conc.	Н		Н																										-1					
N O N		9		9		7		2	2		2		n	N		~	2		m	9	0	,	1	C)		2		2		2		m		ω	
Color	In.	ω		2		m		4	n		†		N	ω		N	3		2	~	ţ	-		2		ω		9	,	9		m	oval.	4	
	121	ω,		ω.		9 .		ω	5		9		9	7		5	9 8		9	9		,		۲		2		ر ع		ر ح		3 4	•	ت 7	
E		nr		f&g ur		ch ur		ch ur	ch ur		ch ur		ch ur	ch ur		ch ur	p0		pl& gs		20 20 20 20 20 20 20 20 20 20 20 20 20 2		n	pl& ur		pl ur		pl ur		pl ur		pl gs	resistant	pr ur	කි
	Shape	0.0		4-1		O		ပ	U				O	O		O	23			50 k	2, (60 8	20			Ω						Д		Q ₁	2018
Fruit	Diam.	6.0		4.5		2.5		2.7	2.2		1.6		2.3	2.1		2.5	3.5		4.0	Γτ	7.0	7.	1.	3.6		4.1		3.6		۳ ۳		3.1	crack	6.2	
	×	0		ω	si e	2		9	5		7		5	N		7	0		2	L	`	O	^	m		2		2		N	•	0	ripe,	0	les.
	t Depth	5-6 5.0		8-9 2.8	vigorous	2.5		6-7 2.6	2.5		6-7 1.7			2.2		2.4	4.		3.2	~ 	÷	0 6 4 9		4.3		6-7 4.2		6-7 4.5		5.5	0	5.0	ittle ripe	5.0	locu
	set.								<u>_</u>				-			7	-		9				[0								ant,	5	y 11.	ω	oped.
Days	jului [132	٠	132	; very	132		132	132		132		132	132		132	132		132	130	707	7 20	1.0c	132		132		132		132	esist	132	; very	132	developed locules
	Mat.	10	color	_		5	د.	5	2		Н		_	٦		<u></u>	_		2	u	`	c	U LU	0, 4, ₹, ₹, ₹, ₹, ₹, ₹, ₹, ₹, ₹, ₹, ₹, ₹, ₹,		5		5		2	ck r	Н	L4/70;	_	
Ę.	Ht. x Wth. Mat.	150	ior o	230	fruit small & fasciated, very good	200	fruit	210	200		200	loom,	180	220	4/70.	220	180		160	01/1	T + C	000	2004	160		200		100		200 ا	, Cre	5 I 6-8 70 200 1 132	t 8/1	80	Staked for field day, poorly
Plant	t. x	90	inter	09	very	100	mall	100	100		90	in t	100	90	m 8/1	100	75		80	65		<u> </u>	/70	60 /6 80 /6		0		0		00	orous	0	frui	2	d day
		0	lark	9	ated,		for s	8-9 1		size	0	still	ط	01	b100	7	<u></u>					3-0 00	ν - C - C - C - C - C - C - C - C - C -	7-8 8		7-8 60		7-9 90	coron	8-9 100	vig	8	ripe	25	fiel
	Vig.	<u></u>	es,	0	asci	∞	eds	ಯ	0	lant	0	70, 8	0	0	1 in	9	∞	lobe	<u></u>	9			ָר ה ה) (- - -		<u></u>	olor.	7-	, vie	သံ	4/70;	9	ou ,	∞	for
	Hab.	Н	locul	H	1 % T		ny se	Н	Н	in p	Н	8/14/	H	Н	stil	H	Н	all g	Н	H	() 1 • r 0	2126	f. O.T.	H	.01	Н	interior color.	Н	plant size, vigorous.	H :	3 8/1	Н	size	Q	aked
	Orig. Unif.	2-9	med	ω	smal	_	r, ma	∞	7	tion	ω	mit	ω	ω	uit,	ω	00	Sms 6	7	г	1001	Tant 7	٠ ال	, can 9	orous	9	nter	2	lant	_	ruits	2	lant	7	St.
	E		y for		ruit	al.	leafy			varie		pe fr			pe fr		al.	Size	al.		, (F	ore E	ירים בידו	Sal.	y vig	37.						Sal.	Je		rell'
		Ohio	Poorly formed locules, dark interior co	Mex.	A11 f	El. Sal.	Very leafy, many seeds for small	Guat.	Guat.	Some variation in plant size.	Guat.	No ripe fruit 8/14/70, still in bloom.	Guat.	Guat.	No ripe fruit, still in bloom $8/14/70$.	Guat.	El. Sal.	Fruit size, small globe.	El. Sal.	- C.110+	Verial Carlo track	Varial	Vow mino 8/11/70	EI. S.	Fairly vigorous.	El. Sal.	Good red	El. Sal.	Variable	E1. S	Few ripe	El. Sa	Variable plant size, no ripe fruit 8/14	Okla.	'Bearwell'.
	P.I. No.	270274		270406°		272640		272645	272648		272649		272652	272656		272662	272669		272691	912020		3962626		272727		272735		272749		272751		273023		285132	

Amt.	Fasc.	Fruit	4					-	p	ł	۲		Н				Н				2-3		М		2-3		7	•	7		77			
	king	Conc.	m	~													~								гH									
	Cracking	Rad.	П								Т		1-2				 1														Н			
	No.	Loc.	0	0		m		m	it. L	•	12		9		8		9						m		m		9		7		9	,	9	
	Color	In.	7	2		N		5	fruit 7	-	7		0		9		2						7		m		2		7		4	-	=	
	Col	EX.	9	9		9		_	small r 7	-	<u></u>		0		2		9						4		4		2				_	,	9	
	H	GS	ur	ur		ur		ur.	Sm.	1	ur		nr		t 0		ur					•	80		ur		83		ur		00 50		nr	
		Shape	F 88	50		ch		1 ch ur 7	is for si	ch	50		5 0		pl	& pr	න්	pJ	1 50			8/18/70	50		60		4-1		50		₽0		භා	
			_	∞	ance			2	seeds	70.	- ω		<u></u>		ω		N			0			2		\sim		0		H		2		CI	
	Fruit	x Diam.	8.7	4.8	resistance	3.1		3.5	of 3	8/14/70.	19		2/9		2.8		5.2			8/18/70.		fruit	5.2		4.3		6.0		4.1		5.5	(ж И	
	-								H													ipe	١.											
		Depth	4.5	4.5	crack	3.0	17/10.	3.0	ry	blooming	4.2		5.4		5.0		7.0			set		no ripe	4.4		4.3		3.7		3.2		4.0	-	4.1	
	1	Set I	6-7 4.5	9		_	8/17	~	cherry 7	b]c	2-9	(D)	2-9		7-8		2-9		2	little	9-5	70, n					. 9		~		2-8		2	
					possible	•		•		still		locules										-						d.						
Days	to	Harv.	132	132		132	Loomi	132	large				132		132		132		140	fruit,	132		126		126		126	fasciated	126		126	(126	
		Mat.	<u>-</u>	5	4/70,	9	11 b]	_	fruit size,	eaves	_	elope	2		7	٠ ب	∞					ripe	2		2		2		<u>-</u>	to.	2	ŧ	2	
	دب.	Ht. x Wth. Mat.	50	1 rul c. 45	e 8/1	220	, sti	200	ruit	ark 1	102	y dev	90		100	nd se	70		80	no ri	160	none	210		150		170	l and	160	toma	200	(130	
	Plant	×	q	9	rip	0	01/4	0		(I)	,	oorl				or a				d),		ize,				٠,		smal		erry				
		E	30	30	tle	100	8/11	100	size 50	Wide	35	1, p(9		50	vig	30		50	han	9	it s:	10		52	fruit.	90	re	9	che	99	1	40 6	G
		Vig.	2	aeveloped locules, large fruit. 8 D 8 30 45	Plants look like bush, little ripe 8/14	Φ	'Peru Wild VR'. Few ripe 8/14/70, still blooming	8	Some variability in plant size, N.H. 8 D 8-9 50	Tiny Tim'. Low growing, wide, dark leaves	0	s busk	N.H. 8 D 8 40 90 5		8	Red Pickler'. Good vigor and set.	7-8		Pa. 7 D 6-7 50 80	lg by	ω	Variable plant size, none ripe	2	1.	2	1811 f	<u></u>	Majority of fruit are small and	7	Small fruit, may be cherry tomato.	ထ)0	are not well lormed.
		Hab.	А	D	and :	н	Few	H	/ in I	r grov) A	lants	Д		Д	· L. J.	Ω		Д	natir	H	iable	Н	Fruit are small.	-	Few plant,, small	Н	of fl	H	uit, n	н	ŀ	T	Mett
		III.		obec	like				lity	Lot				nan		ckle				0111		Val		are		lant		ity		fru			-)	300
		Unif.	ω [evel.	ook .	ထ	1d V	9	iabi. 8	n.	ω	Box '	ω	Chat	Φ	d Pi	Φ		7	e (P	9		2	ruit	5	ew p	9	ajor	00	mall	∞		د و	are
			יס ו	b d	SI		Mi		var	Tii.		MO		99		Re		kin		rip	4	erv		FL		124		Z						
		Orig.	Poland	roorly	Plant	Utah	Peru	Utah	Some v	Tiny	N.Y.	Wind	N.H.	'Orange Chatham'.	N.H.	.H.N.	N.H.	'Redskin'	8	None	Italy	'Conserva'.	N.Y.		N.Y.	x 'Valiant F,'.	N.Y.	F.	126410-4 N.Y.	x 'Valiant F,'.	N.Y.	F. C.	IN · I ·	rnoor
		•		7 1 1	,				erat (mil		_									1 44				x 'Valiant F,	cy.	ant	m	x 'Valiant F.	4:	ant	5	x Valiant F	, ,	
		No.	580	139		301		302	591		592		593		769		262		602		920		126410-1	Vali	126410-2	Vali	410-	Vali	+10-	Vali	+10-	Vali	202	
		P.I.	285680	294439		303801		303802	G-1591		G-1592		G-1593		G-1594		G-1595		G-2209		321056		1261	X	126.	×	126	×	126	×	126	×	5	

Amt.	Fasc. Fruit											Н				m		-				2													
	Cracking d. Conc.									Н		Н		러				7				7													
	Crac Rad.															1-2		4				Н		2										Н	
	No.	0		10		m		m		9		9		2		5		. ω		_		6		2		77		7		_		10		4	
	Color x. In.	5		m		N		\sim		\sim		2		9		*		7		5		ന്		\sim		9		\sim		-7		5		4	
	EX:	9-5	,	9	,	9		2-6		9		2-9		9		9		2		7		<u>-</u>		9		9		2		5		4		2	
	E S	ur		nr		ur		ur		nr		ur		හ දුට		6 0	1	ur		nr		nr		ur		ur		50	•	ur		ur		nr	
	Shape	50		60		5 0		ಕ್ರು		ಶ		: :50		ಓ೦		5 .0	,	ಶು	•	ද්ධ		₩.	oped.	500		₽D.		b0	1	50	,	5 0		po	
	Fruit x Diam.	8.2	(α.		7.0	۰	5.7		6.8		7.0		6.7		7.0		6.1		8.6		7.5	developed.	7.0		5.6		6.5		8.5		8.5		0.9	
:	1 1						ripe.																well												
	Depth.	6.0		5.3				5.4		4.9		3 5.3		3 5.0		6-7 6.2	x M84".	5.0		5.0		7 5.0	not well	5.0		5.0		5.0		5.8		5.6		5.1	
	Set	9	,	9	,	9	very	<u></u>		<u>-</u>		7-8		7-8		9	X	<u></u>		9		2-9	les	<u></u>		2		9		9		7	or.	7	
Days	to Harv.	126	,	126	•	126	a bit,	126		126		126		126		126	Special	126		126	reloped	5 126 (), locules	126		140		126		126		126	exterior color	126	cons.
	Mat.	5		2		m	quite a	2		2		7		7	r.	7				<u></u>	1 der	5	/13/70,	<u>-</u>	set.	~		n	•	m		7	xteri	1-	vigorous
	Plant Ht. x Wth.	160		120	Early Kutgers'	140	ning qu	190		160		200		150	Good internal color	145	Cooper's	09		120	Locules are not well	120	00		Good vigor, good s	150	.02/	100	Few ripe 8/13/70	150	/13/70.	110	light e	150	fairly
	Plant It. x W	50		85	Kut	85	loon	2	•	80		09		9	erna	55				70	re r	55	ew]	55	sor,	09	3/13/	55	pe (55	Few ripe 8/13/	50			•
				7-8	art	\sim	11		rons	~			gor		int	7-8 55	Vigo			78	es		ery 1	7-8 55	Vig	8-9	be 8		W ri	u (ri	u ·	02	2	Good set
	Vig.	<u></u>				∞	s sti	∞	Very vigorous.	7		Φ	% V.	-	Good	2	good			-	Locul	ω	٠	-	GCOC	6	it ri	9	. Fe	<u>-</u>	Few	<u></u>	Goc	7-8	Goo
	Hab.	Н		⊢ ∶	fruit.	Н	' Plants still blooming	H	Very	H		Н	d set	09 7 1	11.		Fairly good set, good vigor.	Д		Н		Д	s 24'	Н	TI.	Н	No fruit ripe 8/13/70.	н	r S, t	+	Ω.	V -I	e A'.	Н	e B'.
	nif.	9	tgers	9.	few ripe	9	11.	_	en!	7		ω	Goo	_	of A	_	good	ω	M84		unris	2	State	9	neva	2	. N	9	elshe	7 I ⁺	'Delsher S.	7	uris	9	nris
	ğ		Ru Ru		ew .		je.		Queen,				-		iest		cly (Land		er S		ern (r Gel		lou	е.			1 De		r S		r St
	Orig. Unif.	Can.	'Early Rutgers'	Can.	Very 1	Can.	'Green jell.	Can.	'Vine	Can.	141-A-1	Can.	130-A-1"	Can.	'Earliest of All'	Can.	Fail	Can.	'Vineland M84'	R.I.	'Summer Sunrise'.	N.Y.	'Eastern States 24'	N.Y.	'Early Geneva II'.	Fla.	'Floralou'.	U. of	Del.	U. of	Del.	N.Y.	'Summer Sunrise A'	N.Y.	'Summer Sunrise B'
	P.I. No.	G-5761		G-5762 3		G-6068 2		G-7024		G-8573		G-8575		G-8576		G-8577	4	G-10035		G-10362		321057		G-11277		G-11821-S Fla.		G-11904S, U. of	7	G-11904S	CDel.	G-12358S N.Y.		G-12359S N.Y.	

liet.																			p.
Amt. Fasc.				Н	Н	H				Н	Н		_		٦	N	0	j	S
Cracking d. Conc.				Н	Н												-	4	
Ra				-	0	Н	p	!		Н		H	_		-	8	a	J	
No. Loc.	9 4	9	9	7	0	9	-	- در	\	7	_	9	00	9	4	9	r	70.	9
Color In.	es.	2	m	77	2	5	r	, A	•	m ,	4-5	9	~) <i>i</i>	4	4	~	8/13/	1-9
A S S	ur 6 locul ur 6	ur 7	ur 5	ur 7 4	gs 6	gs 7	or.			ur 6-7	or 6	ur 6	nr 6	ur 5	gs 5	ur 7	e e		ur 5-6
Shape	developed		60	8	5 63	£0	col	80	3		50	જ						IJ.	50
Fruit Diam.	7.0 poorly deve	9.9	7.8	6.2	7.5	6.7	exterior 6.2	89)	8.7	8.0	8.2	7.2	7.0	6.8	es.	7		7.5
Set Depth. x	7 5.5 uniform, poo	vigorous.	set. 6 5.4	6-7 4.5	4.1	7 5.0	size, good 6 4.8			7, 6.5	7 5.5	& uniform. 6-7 6.2	6-7 5.8		locules. 5-6 6.5	developed locules	locules.	size, still	6 5.5 and color.
Days to Mat. Harv. S	126 very 126	ite 126	s, good 126	\sim	127	127	le plant	721		127	127	igorous 127	127	127	developed	ell deve 127	veloped	le plant	127 lopment
Plant x Wth. Mat.	50 190 7 leafy, vigorous, 40 180 7	Variable plant size, quite 7-8 50 160 7 126	Leafy, fairly vigorous,	6-8 70 180 7 120	130 7	Well developed locules. 5-7 45 170 7	271482 x Loomis Summer Sunrise F. Variable N.Y. 7 I 6-7 70 1110 7	Good exterior color.	-	100, 7	160 5	280060 x Loomis Summer Sunrise F. Very vigorous N.Y. 8 D 6-7 40 100 7 127	or color.	set. 190 6	Poorly 90	Variable plant size, well 7 45 105 7 12	Large fruit, poorly developed	285133 x Loomis Summer Sunrise F., Variable	7 45 +90 5 127 Very good interior development
Vig. Ht. x	8 50 Very leafy 6-8 40	ariable pl	eary, rain	6-8 70	6-7 50	11 develog 5-7 45	Sunrise I	Rood exteri	70	7 50	8 50 160 5	r Sunrise J 6-7 40	.M	Fairly good set.	285132 x Loomis Summer Sunrise. N.Y. 6 D 6-7 50	ariable pla	rge fruit	Sunrise 1	f 45 good int
Hab. Vi	HZ.					H. We	Summer I	F1. G			•	Summer D (E .			a	D Very
Unif. H	8 Sunrise 5	Sunrise 6	Hybrid C	Kutgers Hybrid C' N.Y. 5 I	5	271482 x 285132F ₁ . N.Y. 5 I	Loomis	280060 x 271482 F ₁ .	280060 x 285132F.	7	N.Y. 8 I	Loomis 8	x 271482F.	285132 x 280060F. N.Y. 8 I	Loomis 6	265133 x 280060F. N.Y. 8 D	285133 x 285132F ₁ .	Locmis	N.Y. 7 D Rutgers Hybrid C.
Orig.	N.Y. Summer N.Y.	Summer N.Y.	Rutgers 1st N.Y.	Kutgers Hybrid C'. N.Y. 5 I	N.Y.	271482 x N.Y.	271482 x N.Y.	280060 x	280060	N.Y.	N.Y.	280060 x	285132 x N.Y.	285132 x N.Y.	285132 x N.Y.	285133 x N.Y.	285133 x	285133 x	N.Y. Rutgers
P.I. No.	G-12360s G-12361s	G-12400S	G-12400S	G-12998	G-12999	G-13000	G-13001	G-13002		6-13003	G-13004	G-13005	6-13006	6-13007	G-13008	6-13009	G-13010		G-13183S

Amt.	Fruit		_	4			Н	0.	٢						1				~			fruits												
กรอกให้เกิด	Conc.						Н	8/13/7										•				some fr							~		Н			
, a	Rad.						~	moold r	-				~					locules	Ч			plants,		Н					g		Н			
ON CA	Loc.	2	ſ	`	ω		Н	still in	9		⇉		7		m		7	developed .	5		N	small p		9	77		4		\sim		<u>-</u>		5	
۶	il.	<u>-</u>	7	-	2		10	•	9		9		Φ		→		\sim	evel.	-		7	6		7	-		Φ		_		7		2	
נטןט	EX.	9	9)	7		9	flowers	7		<u>-</u>		<u>-</u>		9		9	\vdash	_		5	day		1/2	9		<u></u>		9		9		9	
2		ur	ال ال	i O	80		nr	flo	ur		ar		nr		ur		ur	70, wel	80		nr	ield		P0	nr		nr		90 03		nr		nr	
	Shape	ಶಾ	set.	۵	50		භා	many	69 Q		t _O		60		ಶು		50	13/	50		D, C	for field		5.0	(ය (D, 0		50		50		50	
开加工工	x Diam.		, good s	color.	7.0		3.9	larger,	7.0		5.9		5.5	good set.	6.3		7.2	∞	4.0		3.7	staked		6.7	9.9		5.6		6.3		7.5		6.3	
	Depth.	0.9	and color	internal	7 5.8		5 3.0	, others	5.5		5.1		4.5	0	5.2	8/13/70.	5.5	size, few	7-8 4.0		4.4 6-8	ood set,		4.7	5.5		0.9		7.4.7		7 5.5		5.0	
	Set			good 1	1-9		2-6	1a11	_		ထ		_				9	it si	2	day.	8	Ly ga		_	9		7		6-7		2-9		7	.02
Days	1221	127	elopmen	70,	128	ro.	135	very small,	127		127		128		128	few ripe	128	iable plant	128		128	extremely good		128	128		128		128	8/13/70	132		132	3 8/13/
	Mat.	2	dev	8/13/	N	cule	2		2		_		7	velo				riab	<u></u>	for	_			5	_		7		2				2	e yet
Plant	th	150	lternal 160	ripe	120	oped lo	150	Majority of fruit	90		96		96	interior development	170 5	12 row	160	lez, Va	180	set, staked for	50	Variable plant size,		140	110	8/13/70.	100		170	few r	130		170	Not too many ripe
واط	Ht.	70	iood 50	ry fer	55	devel	5-7 55	jority	35		30		35	inte	09	ant in	50	ernan	50	set,	20	le pla		45		ripe {	40		09	orous.	65		90	too me
	Vig.	∞	70°, 8	9, ve	∞	orly	5-7		2-9		7		2-9	Good	7-8	st pl	6-8	Р. н	2-9	Good	7-8	ariab		7	04 4-9	few	2-9		8	e vig	8			
	- Q		3/13/	157-), po		Gem	_		_		_	se.		o pe		y T.		33			n.			ize,		lor.		Quit		다	-1	-
	Ha	P~-{	be 8	-49		.3/70	<u>}}</u>	om ,			A	ţ.	Q	ride		ise	Н	ed b		. Bet		rly,	brow	H	А	nt s		rco	-		H	ort	 	al F
	Unif.	9	it ri 7	n row	_	e 8/1	5	on fr	9	set.	Φ	od se		Lethk	<u>-</u>	Suni	2	f, br	<u>-</u>	Prior	9	yk Ee	tted	_	5	e pla	9	teric	ω	na F,	1 2	Riks	_	Speci
	Orig. Unif. Hab. Vig.	Calif.	Few fruit ripe 8/13/70, good internal development	Plant i	calif. 7 D 8 55 120 2	Few ripe 8/13/70, poorly developed locules.	N.Y.	Selection from 'Gem'.		Good	Can.	Very good set.	Can.	'Early Lethbridge'	M.Y.	'Summer	La. 5 I 6-8 50 160 3	'Creole', bred by T. P. Hernandez, Vari	Nor.	'Immun Prior Beta'	Can.	'Chamasyk Early'.	are spotted brown.	Can.	Can.	Variable plant size, few ripe	Can.	Good interior color.	Den.	'Danimu	Swe. 7 I 8 65 130 5	'Immuna Riksort F,	Den.	'Rever Special F,'.
	P. I. No.	G-13185S	בארגנים	2/21/1-2	G-13185S		G-13242		G-13508S2	7	G-13724S		G-13725S		G-19594		G-19695		G-19762		G-20126				G-20128		G-20129		G-20200		G-20201		G-20202	

Amt.	Fasc.	Fruit							N		Н				~		1-2			2							
	Cracking	Rad. Conc.				0.											1 1	locules.									
	No.	Loc.	m		2	8/17/7	2		\sim		m	•	9		8	•	ω	velope		2		2					
	UR Color	GS Ex. In.	ur 6 4		ur 5 3	very little ripe	ur 4 6	70.	r 5 6		ur 6-75		r 6 7		s 5 2	developed locules.	ur 5 3	8/17/70, well developed		ur 8 7		ur 8 4				Variable plant size, no set 8/13, very large plants, no set, still flowering 8/17/70.)
	D	Shape G	n S)	೬೦	very li	n ស	ns 8/13/	ก)	n a)	2	ı	88	develop		8/11/7		20)	ch u				floweri	
	Fruit	x Diam.	0.9		5.8	8/1	6.7	'Patrik F,'. Variable plant size, few ripe fruit, still many blooms 8/13/70.	6.7		7.4		7.0		5.7	, poorly	7.5	70; no fruit ripe	1	4.2	seeds.	1.5				t, still	
		Set Depth.	Den. 5 I 6-7 60 110 5 132 5 4.8	13/70.	5 4.8	e fruit	5 4.7	, still m	5-6 5.0		7 4.2		2.6		6-7 5.9	8/17/70	5-7 4.0	70; no f		7 3.0	many	3 1.6				s, no se	
Days	to	Harv.	132	ripe 8/1	132	e, no rig	132	pe fruit	132		132		132		140 (ttle ripe	132	ripe 8/13,			vigorou	140				rge plant	
		ch. Mat.	5 01	lze, few	70 2	lant size	30 3	, few ril	10 7		20 00	7.	7 00	good set.	30 1	very li	50 1	, none ri		200	/70, very	30 5			01	very la	
	Plant	Orig. Unif. Hab. Vig. Ht. x Wth. Mat.	60 1.	plant si	65 1.	riable p.	65 1	ant size	60 1.		Swe. 7 I 9 70 200	s & leafy	Rum. 8 D 8 40 100 7	gorous,	Calif. 7 I 9 100 180 1	'Grand Prix'. None ripe 8/13/70, very little ripe 8/17/	I 7-8 65 150 1	'Royal Ace'. Variable plant size, none		I 9 80 200 7	Small fruit, still flowering 8/13/70, very vigorous,	90 18			8 120 210	et 8/13,	
		Vig.	2-9	ariable	5-7	n'. Va	2-6	able pl	_		0	vigorou	ω	Very vi	0	e ripe	7-8	able pl		0	flower	0	Still flowering 8/13/70.		∞	e, no s	
		. Hab.	Н	F. 1	I +9	upergra	Н 9	. Vari	Н	- E	Ţ	Very	Ω	nii".	Н	. Non	Н	· Vari		H	, still	H	ring 8/			ant siz	
		Unif	5	ymuna	5-	10 de S1	7-	rik F,	t-	entat 1	_	la HG'.	∞	mocrasi	- 1	nd Prix	Calif. 6	al Ace	pimp.	Φ	fruit	ω	flower I		5	able pl	
		Orig.	Den.	'Earl	Belg.	Prin	Swe.	Patr	Swe.	Pote	Swe.	'Juli	Rum.	'Tion	Calit	Grar	Calif	Roye	· × L	Peru	Small	Ec.	Still	rsutum	Peru	Varie	
		P.I. No.	G-20203		G-20204		G-20205		G-20206		G-20207		G-20208		G-20228		G-20229		L. escul. x L. pimp.	129143	,	129156		Lyco. hirsutum	127827		

Standard Cultivars Included for Comparison

	0							
	Ŋ	color.			-			
	2	nterior	-		m		Н	
	ω	lark i	5		7		gs 4-52 5	
	Φ	ery	5		9		2	
	<u>_</u>	, Ve	9		<u></u>		4-6	
	nr	11/70	nr		nr 7 6		න	
TOCT TE	5.0	ipe 8/	50		b 0		භා	
OT COMP	7.0	fruit r	6.5		9.0		7.0	
Tagan	5.3	little	-9 5.7		5.5		132 6-7 5.8	
	တ	iry	φ		ω		9	
Deallast Caretvals theraved for comparison	M.Y. 6 D 7 50 130 3 8 5.3 7.0 g ur 7 8 8 2 2	growing, ve	0		9 132 8 5.5		5 132	
ningin	130	low &	110		110	set.	90	•
2	50	missing,	30		30	'Galaxy'. Very vigorous, good set.	09	Sept. Dawn'. Very large fruit.
	7	plant	Φ	od set	∞	igorou	7-8	ry lar
	Д	One	А	. Go	Q	Jery v	Н	. Ve
	9	1350.	<u></u>	'New Yorker'. Good set.	7	. 'y	_	Dawn .
	M.Y.	Heinz	N.Y.	'New]	N.Y.	Galay	N.Y.	Sept.
	G-19715		G-19714		н-858		G-19716	

Amt.	Fasc.	Fruit							
	Cracking	Rad. Conc.							
] -t-q }		Н				Н	
	No.	Loc.		ω		0		_	
	Fruit	Harv. Set Depth. x Diam. Shape GS Ex. In. L	mparison	.8 g ur 5 3	med & many locules.	.0 pl,pr ur 6 3		.9 g ur 6 5	
Days	to	t. Harv. Set Depth. x	Standard Cultivars Included for Comparison	6-7 5.8 8.8	rly good set, well for	N.Y. 8 D 8 45 110 7 7-86.2 4.0 pl,pr ur 6 3		128 6 5.5 6.9	13/70.
	•	. Vig. Ht. x Wth. Mat.	Standard Cul	N.Y. 7 I 7 50 100 5	Few ripe 8/13/70, fai	8 45 110 7		N.Y. 7 I 7-8 40 170 5 128	d, B-5175, few ripe 8/
		P.I. No. Orig. Unif. Hab. Vig.		N.Y. 7 I	'Campbell 1327'.	N.Y. 8 D	Very good set.	N.Y. 7 I	Burpee's VF hybric
		P.I. No.		н-855		Nova		G-20218	

PHASEOLUS LUNATUS

1970 Descriptions and Evaluations

Seeds planted at the Vegetable Research Farm, N.Y. State Agricultural Experiment Station, Geneva, N.Y., by the Department of Vegetable Crops. Notes taken by D. D. Dolan 8/27/70. Planted 5/1/70.

											ov=oval		1=little
l≕least	l=poor	l=poor		1=poor	ŧ			pr=purple	i	sm=small	rec=rectangular	rd=red t=tan	5=moderate l=
1	Ч	П		7				ρ	1	Ø	H	7	5=mo
5=medium	5=medium centimeters	5=medium	md=medium	5=medium	imeters.		s=straight	gr=grey	,	lg=large	cv=curved	pr=purple	9=much
9=very	9=very 5=medium height and width in centimeters	9=very 5=med	dk=dark	9=heavy	width in cent	fl=flat	cv=curved	gn=green	1	md=medium	fl=flat	w=white	chose
Uniformity Habit	5 Vigor 6 % 7 Plant height			Set	13 & 14 Pod length x width in centimeters.	Pod shape	Curvature	Pod Color	Yield in grams	Seed size	Seed shape	Seed color	Amount of anthrachose
m ===			1						18	13	20	21	22
Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.

Anthr.	∞	0	0 11	9 1	0	0	1-2		Д	0	8-9		<u>\(\) \(\) \(\)</u>	O)	V-4 C-4	2-9	0	Н г	Z	l	0	89
Seed Shp. Col.	fl ov w	fl rec rd							3													
SZ	mq	S mg							ti ti													
Gms.	135	gn 382							308													
Col.	pl	Tď							gr													
Curv.	cn.	sl cv							CV													
Shp.	fJ	f							fJ .													
Pod Lgth.xWth.	2.1	2.1							2.3													
F Lgth.	8.0	7.7							11.8													
Set		dk 8-9 at Geneva.										leaf.										
Leaf Col.	dk			dh	dk	mq	ਲੁੱ			े दोह	Š	de of	md	경 :	ork mg	dk	dk	성 '	D AK	\$	dk	dk
Leaf Lgth.xWth.	6.5	6.2 Pods	5.0	10.4	8.5	7.0	8.2			7.3	5.7	on underside of	8.5	φ. c	N = 0	7.2	4.6	ω ι) a		7.5	7.2
Le Lgth.	10.0	8.2 ance.	6.8	12.5	11.7	8.5	12.2			10.3	14.0	un uo	12.0	10.5	75.7	9.6	12.8	10.7	10.7	1	11.2	9.5
Leaf.	3	6 8.2 resistance.	m 4	4 -	<u>-</u>	0	2-9			1-9	. 77			34	ハユ	· ~	7	100)-0	-	1-9	7
th.	19	34 disease r		32	717	35	45			35	disease tolerance 5 12 48	anthracnose following	59	26	3.1 1.5	35	35	40	E 33		29	32
Plant Ht. x W	18			16 22	22 4		14			17	e tole	e fol	13-14	29	TQ 14	18	16	15	17	-	19	es.
Vig	m	6-7 15 possible	3-4	4 9	8	8-9	_			7	iseas 5	acnos	45		ハユ		7	<u>-</u> -	<u>- </u>)	2	leaves. 4-5 14.5
Hab.				Д Д	0		P4	C		d		anthr	Q	P4	_다 다	24 P.	유	Ω	다 C	24	рļ	inted P
Unif.	77	Geneva. 6-7 p		5-6			stems 5			~	Possible 4	leaf;	→	⇒ 1	クユ	7	C		ο v	eaf.	8-9	sen po
Orig.		Pods at Guat.	India Guat.	Guat. El. Sal.	El. Sal. 6	Mex.	Purple : India		N.H.	Belg.	Congo.		Nigeria	Nigeria	Nigeria	Nigeria	-UJ		EI. Sal.		Jamac.	Dark green pointed El. Sal. 4 p
P. I. No.	162689	164393	180324	195344	197024	201289	214170		234256	247822	248790)	249035	249036	249039	640642	294053	256384	256386	1	248789	256398

Anthr.	0	N N	0 0	2-3	œ	90	9	0		0 0) (J (0	0	0	†		0	C	Ø0	p. 49
Seed Shp. Col.			fl ov w											fl ov w			fl ov w			
SZ.			176 1g											18			169 ig			
Gms. Col. Yld.			gn 1											gn 84			7	1	pr	pr
Curv.			s t											so.			W		οΛ	· w
Shp.			¢щ											4-4			fl	ξ	TI	fl
Pod Lgth.Wth.			7 2.6											7 2.2			5 2.2	r	-	0 2.7
Set Let			9 12.7						ect.					3-4 10.			11.5	a	0.0	1-2 10.0
Leaf Col. S	dk	dk md-dk	th th	\$	dj.	dk gn md	ght.		e" effect	S HS	मिव	DIII A	md-dk	dk .	កាថ្ម		dk	17	S S	dk
af xWth.	6.7	8.4.9	13.0 9.8 8.0 5.4 at Geneva.	8.3	7.3	7.9	al blight. 6.8 dk	5.1	O		10.0		6.2	7.2	80		5.9	7	0 0	7.8
Leaf Lgth.x	8.7	12.0		10.2	10.8	10.5	leaves, common bacterial 3 11.5 35 3 8.2	7.0	Š.		6.6	, (10.3	10.5		0.6	9	0.0	12.3
. Leaf.	2	1-8	6 9 Pods	3-4	7.	5 3-4	ommon b			~ ~ ~ ~	3-4	0	8	2-6	9		77	3	٥	9
Plant Ht. x Wth.	5 32	3e. 44 5 46	Leaf. 5 45 48	12 St	common BV 16 40	31.5	res, co	777	spot and	04	35	44 +4 44 -1 24 -1	21 48 8	34	35	saves.	42	83	00	45
Vig. Ht.	5 11.5	resistance. 6 14 8 16.5	pointed leaf. 6-7 17.5 4 8-9 21 4 all pole bea	4 12.5 2-3 14	virus, common BV 4-5 16 40	3 12 2 8.5	on leave: 2-3 11.5	6 19	erı	2 14 4 15	4 35	2			6 45	rougose leaves.	4 16	11- 6- 2	0-1 T#	8 40 45
Hab.	Q		4-4	요요.	-		spotting 5			D4 P	1 P4 F	have hy		Q	va.			ra.		
Unif.		le dise 1. 3-4 1. 4	Small "lopsided" El. Sal. 4-5 p Peru 5 p Best yield yet o	a 5-6	Every plant has of Rica 6 p	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ial spe		Þ	2 1	<i>y v</i>	£J.	. 5		at Geneva.			at Geneva.	d J	6-7
Orig.	El. Sal.	Possible El. Sal. El. Sal.	El. Sa Peru Best y	C. Rica	Every p. C. Rica	C. Rica	Bacterial	Peru	Appears	Peru	Peru				Pods a	Has light			Verm	Peru
P.I. No.	256401	256402	256406	256417	256419	256421 256806	256808	256824	808930	256829	256836 256814	1	256845	256850	256854		256856	. 256857	10000	256876

Anthr.	77	0	0	0			0	ł	- 0		0		7-8	2-8	2	m	0	0		0		0	0	0		0		-	ς,	5-6		45	0	c) c	U
Seed Shp. Col.		fl ov w				fl ov w		M AO T.I																					fl ov w							
SZ.		md			1	18		SE																					100							
Gms.		68			(30	ī	24																				,	346							
Col.		gn						gu																					gn				gn			
Curv.		cv				n t		CA																				1	sl cv				CV			
Shp.		f1			ļ	r-I 9-1	į	Ţ,																					f]				f]			
od .xWth.		2.8			-	3.4	(N.0																					3,3				1,3			
Pod Lgth.x		15.0			-	11.4	1	0.0																					7 10.2		lose.		9 5.0			
Set		9																										,	2-9		anthracnose	1	8-9			
Col.	dk	md	성	dk			성	1	nd dk		क्रुं		fy.	क्रे	dk	Ŕ	nd	md		md		솭	성	충		dk k		dk	dk	md	o ant	ਲੁੱ	d; G	, s	אָן הַּ	4
eaf.xWth.	10.0	7.0	ο. Β.ο.	8.0			9.5	(0 K) ;	6.8		7.0	7.0	7.0	7.1	7.7	8.1		8.1		7.4	7.8	5.8		0.4		ω 0 '	9.6	5.8	40	ω α	5.7	a	ο α α	N.
Lgth	13.0	10.7	thin seed.	11.8			12.0	(31.5	ì	8.6		8.9	8.5	0.6	10.5	0.6	ω. -		0.6		10.8	9.8	10.7		15.0		10.0	12.7	8.0	susceptible	10.6	7.6	C	7.77	76.0
Leaf.	89		>			,	2-9	(ひし		3-4		3	m	2	<u>-</u>	a	2-3	yield.	2-3		9	4-5	<u>-</u>		3-4		8-9	2-9	4-5			N	, i	† ~	1
nt Wth.	36	-+ (28	142			30	(325	l }	19	ose.	25	28	38	35	22	20	of yie	23		77	30	32		33		54	35	34	e plants	84	18.5	C	טט רכי	70
Vig. Ht. x W	9 25	17	. III 55	8 19	tolerance.	•	7-8 60		2-3 12.5		3 12	to anthracnose	3 9.5	3 12	5 14	7-8 16		2-3 11	no chance	3 6	vulgaris.		5 15			3 15		8-9 19		4 14.5	stems; some	5 14		to BV1;	0 TO	
Unif. Hab.	6 p Geneva.	5-6 p	flat & 5 p	7-8 p	disease		5 p	1	r r r	ts in	5 10	ble	d 9-5	3-4 p	5 p	d 9	A 8.	d ty	or growth;				5-6 p		eaf, some.	d L-9	eaf.	5-6 p		3-4 p	plants ready	d 2		ptible	U :	
Orig.	ب		Pods very Peru	Peru	Possible	Peru	Peru	Columb.	Col.	5		Very sus		Col.	Col.	Col.	Col.	Col.	Very poor		Ø	Col.	Col.	C. Rica	4	C. Rica	Willow leaf.	Argent.	Argent.			Mex.			Mex.	MCA.
P.I. No.	256879	256889	256894	256904	•	256908	256910	257350	257356		257360		257375	257376	257378	257379	257385	257390		257392		257397	257400	257408		257409		257412	257416	257551		257552	257553	722430	057557	100102

	Anthr.	5	2-6	m	2	ω	3-4		9-5		2-3	0			0		0		0		0		0		0		0		2-9		1-2		2-9	>	
Seed	Sz. Shp. Col.																	e leaves.									1 floww		1 fl rec t						
Gms.	1																	common bacterial blight; red stem; rougose									150 md		112 md						
	001.																	1 stem									gn		ug .						
	Curv.																	nt; red									cv.		S&CV						
	Shp.																	l blig									f.		fJ						
Pod	Lgth.Wth.																	cteria									2.0		1.2						
<u>C</u>																		mon ba									7.5		6.9						
	Col. Set	dk	dk	농	ķ	çķ	ĠĶ.		dk		dk	çk Çk		Ŕ	Ť		md	like com	dk		dk	tes.	dk		md	leaves.	dk 7		dk		dk		dk	*	
٠.		6.2	m v	0.0	6.8	10.2	7.2		7.7		6.2	6.9	1	7.7	7.0		7.2	looks li	7.8		7.6	der mi	0.6		9.0	to	5.3		7.0		5.5		7.3	•	
Leaf	3	9.5	11.0	10.5	10.0	12.2	9.8		9.5		0.6	10.0		10.0	2.6		8.0		10.8		12.2	to red spider mites.	13.5		7.8	damage	7.5		9.5		7.0		o, a rv o)	
	Leaf.	3-4	41	9-0	4		3.5		6.5			9-4	(0	8-0		7-), dise	∞		9		L-9	ance.	9	insect damage	9		9		4	١	o r	`	
Plant	x Wth.	59		30	35	70	26.5		710			36.5		42	36			y bean),			79	broad leaves; very susceptible	65	disease resistance.			04		32	ites.	28		38		
Pl	Unif. Hab. Vig. Ht. x Wth.	15	11.5	T :	19		10		17		8-9 18.5	6 16	rance.	5 51	9 21	rance.	3-4 13.5	rdinar	21	ht.	6-7 19.5 64	ry sus	9-6 16	sease	17	all le	13	stems.	14.5	ider m	11	ļ-	13.5	1	
	b. Vig	77	m	0 \	9 (6-8	hr 4	lant.	8	plants red stems.		+	ם מסדם		2	e tole	w	ris (o	6	il blig	9	es; ve			9	ms; sm	9	re red	9	red sp	m .	e to B	9 =	tems.	
	if. Ha	3-4 p	4-5 p	۲. د	d 7	ω, Ει	q L-9	spreading plant.	5 p	its red	d 9	4 D	arseds.		5 p	diseas	d t	vulge	8	cteria	d 9	d leav	d 9	possi	d 9	ed ste	Q	its hav	5 p	le to	5 p	eptibl	7. D	reas	
	Orig. Un	Mex.		Mex.	Mex.	Mex.	Mex.	Low sprea	Mex.	Some plan	Mex.	Mex.	רחדם	Mex.	Mex.	Possible disease tolerance.	Peru	Phaseolus vulgaris (ordinary	Bol.	Common bacterial blight.	Bol.		Bol.	Big leaf; possible	C. Rica	Slender red stems; small leaves;	Mex.	Some plants have red stems.	Braz.	Susceptible to red spider mites.	Braz.	Very susceptible to BV	Braz. 5	Very fine rea stems	
		Me	Me	Me	Me	Me	Me	P	Me	တ္သ	Me	Me D				Po	Pe	Ph	Bo	ပိ	Bo	Bi	Bc	Bi	ບໍ			SS	Br	Su	Br	Ve	Z Br	Ve	
	P.I. No.	257558	257559	T0C)C2	257562	257564	257565		257566		257567	55.(568		257569	52,1249		260407		260414		260415	,	260416	,	264605		299380		299385		299386		299389	1000	

p. 51

Thif Hab Win Ht v With Toof Inth with Col Cot	Plant Leaf Lath With Col Cot	Toof Tath with Col Cot	Leaf	Leaf			Pod Charles		į		7	Gms.	Seed	, 52
Orig. Unit. Hab. Vig. Ht. x Wth. Leaf. Lgth.xWth. Col. Set Lgth.xV	Ht. x Wth. Leaf. Lgth.xWth. Col. Set	Leaf. Lgth.xWth. Col. Set	Lgth.xWth. Col. Set	Lgth.xWth. Col. Set			n.x	Wth.	Shp.	Curv.	C01:	71d. Sz	Leth.xWth. Shp. Curv. Col. Yld. Sz. Shp. Col.	
Guat. 5 p 6 17.5 42 6 9.2 6.5 dk	9	9	6 9.2 6.5 dk	9.2 6.5 dk	dk									0
Guat. 7 p 6 15.5 36 6 11.3 7.7 dk	Ť	Ť	Ť	Ť	Ť									4
st. 6-7 p 7 19.5 42 6-7 10.0 7.2 dk														0
ie insect damage.	å													
at. 6 p 9 24 42 7-8 10.0 6.7 md-dk	9 24 42 7-8 10.0 6.7 md-dk	42 7-8 10.0 6.7 md-dk	7-8 10.0 6.7 md-dk	10.0 6.7 md-dk	md-dk	и								45
te vigorous; some plants ready stems.	ome plants ready stems.	s ready stems.	stems.											
at. 7 p 8 20.5 35 7 10.0 7.3 dk	8 20.5 35 7 10.0 7.3 dk	5 35 7 10.0 7.3 dk	7 10.0 7.3 dk	10.0 7.3 dk	dk									2
c. 6 p 6 17 42 6 10.7 6.6 dk														۲
z. 4 p 3-4 18.5 42 4-5 7.0 4.8 md														
.z. 6 p 5 13.5 32 5 7.0 5.3 m 9 7.5 1.9 fl	5 13.5 32 5 7.0 5.3 m 9 7.5	5 32 5 7.0 5.3 m 9 7.5	5 7.0 5.3 m 9 7.5	7.0 5.3 m 9 7.5	m 9 7.5	9 7.5		1.9	f.J	cv	gn	332 1	gn 332 l fl rec t 1-2	1-2
Pods ripe 8/30; spots on pods that look like bacterial spots; some defoliation due to anthracnose, red stems.	oots on pods that look like bacterial spots; so	ods that look like bacterial spots; so	; look like bacterial spots; so	like bacterial spots; so	erial spots; so	ots; so		me defol	iation	due t	o anthi	racnose	, red stems	٠

PHASEOLUS VULGARIS

Seed treated with Arasan 75. Seeded in field 5/19&20/70, 144 seeds per accession. Spacing 18' rows + 4' alley between rows. Fertilizer 640 lb. 10-20-20/A. Notes taken 7/31 & 8/4/70.

								spl=splash	ł					÷		pr=purple			
				pi=pink	4			gn=green						· 教育等的 一名 有一名	obl=oblong	r=red			
			l=few	pr=purple	l=poor	1		b=brown							fl=flat c	spl-splash		1=slight	1=slight
1	l=poor		5=medium	yel=yellow	5=medium			: y=yellow			l=least	-stringless	l=least	m=medium l=large		w=white t=tan	yel=yellow		
	lium	meters	5=n	w=white y	5=m		eters	d=dark			5-medium	+=string	5=medium	m 1=1a	1=plump o	n w=whi	gn=green ye	5=moderate	5=moderate
p=pole	5-medium	Ith in centi	9=many	ender w=	9=heavy	harvest	h in centim	1=light m=medium d=dark	le le	f=flat	9=most 5=		9=most 5=medium	m=mediu	cate p	br=brown		9=severe	9=severe
	9=very	& 6 Plant height x width in centimeters	leaves	Flower color lav=lavender	প্র	Days from planting to harvest	11 & 12 Pod length x width in centimeters	1=light	pr-purple	r=r	e e	Pod string or stringless		s=small	Seed shape trun=truncate pl=plump ov=oval	. l=light	blk=black		
	Vigor 9	& 6 Plant	Number of leaves	Flower col	Set of pods		& 12 Pod 1	Pod color		Pod shape	Pod curvature	Pod string	Pod shattering	Seed size	Seed shape	Seed color		Virus disease	Bacterial disease
	4	S		ω.	6	. 10				17	. 15	. 16	. 17	. 18	. 19	. 20		Col. 21	. 22
Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.		Col.	Col.	Col.	Col.	Col.	Col.	Col.		Col	Col.

54	Bact.		1-2	02									2-5			2-5		2-4		(07	۲,	`	<u></u>		∞	7	0 !
	Diseases Virus Bact.		1	0		C	2	2 7		7		t t	7 5		9 4	0-3 2		2 4-0			· · ·	5,0	, 4C	3 2 8		9-0		1
			, ,	, ,			8/1			٤												4	n d	br	red			pods.
	Color		1 br	l.br	ţ	•	bloom	t spl	red	t spl	& pr	red red	w, blk		t,	pl gn		¥			*	т Г	t sn]	red,	spk 1	M		wide po
	Shp.		ΔО	ΛO	_	1	ou ,	NO.		trun	obl	T _O	OV		obl	obl		trun	& obl	f	Tao	tmin	20	obl.		obl		very wi
	Sz. S		0	S-m ov	m_1 - F		dying,	0		s-m t		O ∄	m o		m o	0 111		ر د	ి		0 III-8	E		s-mo		0 11		
	Shat.					1	are												small,								~	od set
	o <u>r</u> Sh		+	+	+	-	plants	+		9	4	⊃ ⊦	+		1	\$		+ 4		ι.	^ +	+		+		+	α 4	٠. ا
	Curv.		o,	Ó	, α)	•	∞	(φ	α	Ç			0,	ထု			l very	(ע	α)	ထု		တဲ	C	uniform
	1		5-9	5-9	. «)	plants	5-8	-	4-8	T.		9			58			still	L	710	η. (2)	\	6-8		6-8	7	
Pod	Shp		y f	5 F	n. en f			gn f		gn f	¢		4-1		4-1	4-1		4-1	pods		H	G		4-1		4-4	¢.	qui
Δч	Col.		1km y	y sp b		1	/ small	1-m		T-m	(33		m gn	set.	m gn	yel		m gn	31;		E 63 E	m Gn		m gn		m gn		ng m
	Wth.	is	1.1	l plan	ning		some very	1.3	(set 7/	T. L	1.1		1.3	1.2		6.0	ers 7/	C	T.7		I	1.2		1.3	0	vigorous
	Lgth.x	Phaseolus vulgaris	12.2	for small plants.	are turning	1		13.1	-		ittle s	` .	11.0	; little	_	12.1		8.5	Still many flowers left; very little set; several flowers	(0.11	11.5	7/31,	14.0		10.4	ת	G)
S		lus		for			7/31;	7						size,	9	H		80	eral		7/3)	5	-				
Days	Set Harv.	naseo	82	turning brown; good set	'Amarillos'. Staked for field day; some leaves	` .	loom	16 9-4	ize.	3 113	Several flowers left, very vigorous & uniform;	7	106		2-3 106			119	s sev	L L			Variable plant size: several flowers remaining	91		106	little set.	Staked for field day; very large pods
		짋	_	800	some	ness	no b	4	int s:	m	w w	0	Н	le p	Ċ	7		N	set	ر -	t amo.		rem	77	ize.	3	le s	large
	FIWr. Color		lav	rown;	day;	Variable leafiness.	ize;	47 4-7 lav.	e pla	**	rous	₽	×	in row, variable plant	pr	lav		¹ ≥	ittle	8 0/1	N N	3 3	OWPre	lav	ant s	**	litt	weye Very
,	No. Lvs.		9	ing brow 4-5 w	teld 4-7	able	ant s	1-4	riabl	o c	vigo	5	35 4-6 W	W . V	_	5		ω	ery 1	rerin	67 OF	1-7		5-6	Le pl	M L-9	7/31;	lay:
	th.		45	turni 42	or fi	Variable	e pla	14	; val	00	very vigo	†	35	in re	740	35	,	09	t; ve	TTO	47 -00-1 W	55 4-7 W	PVPr	47 5-6 lav	riab]	45	ing [ov eld d
i	Orig. Hab. Vig. Ht.x Wth.		43	Some leaves 5 40	ked f	· · · · · · · ·	ab]	2	ante	N	left;		0	Five plants	717	0		_	s lef	-i	-)))	. O. C.	6 2 -	×	Pro-	ain	or fi
	- AC		5 4	ome leav	Sta.	'Selinik Fasulyesi'	Va	3-7 52	311 p	7-9 72	ers l		3-5 40	re pl	7 9	4-5 30		7-8 97	Lower	et,	7-1 50 nt size:	11-7 77	+:	Lt 9-t	n ro	2-6 67	rs rem	ed f
	b. Vj			S S S S S S S S S S S S S S S S S S S	0.5°	Fası	eno''.	(-)	y smg	,	flowe								ny f]	tTe a	, שנת	1 -1	nlar	7	nts i	L	flowe	
	Ha.		م ر	'Yamal'.	rill	inik	rente	India b	ver	Indiat	eral j		۵	'Horoz'.	۵٫	م,	Good set.	4	1 ma	r litt	ם קוניהיי) +:	able	q	pla	42	ral 1	- One
	Orie		Can.	'Yama. Chile	'Ama.	'Seli	Cue	Indi	Some	Indi	Sever	1110	Tur.	'Hor	Tur.	Tur.	Good	Tur.	Stil	very	Vari	Thir	Vari	Tur.	Five	Tur.	Seve	'Cali
	P. I.No.		136687	151014	165008	000/07	437	165933	(166018	נשנאשנ	TCT.	167350		169721	169735		169740		21.0	10V-14V	169749R		190		838	3)1.3	1
	P.I		136	151	765	7	1	165	1	166	771	707	167		169	169	,	169		3/6	TOA	169		169790		169838	1608113	101

	Diseases	- 1	2 1-4	00)	0/		0	0,	9	,	0		+6		+ 6		t		2		4		4		7		7		2	+6		p	• !	55
	Dis	/I rus	0-5	00)	_		4	00	+6	\	0/		0		0		46		9		9 1		0		2		\sim		6	0		7		
	ed	COTOL	v red					H	4	b1k w		W		7		M		W		v t spl	red	v w&dk red		W		W		M A		t)	v t spl	red	blk		
	Seed	Sup.	pl ov					k rnd	trun	& ov	NO 3	NO.		OV		OV		trun	de.	pl ov		pl ov		ΔO		ΔO		pl ov		ΔO	pl ov		ΛO		
	O		S-m I				ng.	n n	s-m t			S-m		2		s-m		7	very little.			s-m		S-m		s-m					S-m				
			02					u z	UI	U,		02		02		U		日日	ery	m		U2		υ		02		H		Ŋ	01		Ø		
		onar.	7				plants		5-	7		9						5		4		5		9				4		7	7		2		
+	0		1					ł	+	+		+		+		+		3	others	1		+		+		+		+		+	1		+		
	,	carv.	1-4				/19, all	7	1-4	5-7		4-7		2.8		9-9		8-9		22	70.	2-1	. Ge	8-9		3-5		5-8		2-8	3-7		9-4		
	5	oup.	4				8/1/8	н	¢	c _k)	¢-i		4		4-4				4-1	set 7/31 & 8/19/70.	G-4	t size.	4-1		4		ÇH.		¢-1	Ç1		Ç.		
	5	- 1	gn		.67		no set	1100	gn	gn		gn		g gn		l gn		m-d gn f	some plants good	2n	ග න්	gn	plant	gn				n gn		ZIZ.	zn z	l pr	gn spl	е.	set.
			m	set.	8/19			EI .	国	E		m (ローロ		m-d		m-(lan	m gn	//31	III (le 1	m E		gn		1-m		m gn	m gn	Spl		14	
	4+11	MCE	1.5		set		7/31,	T.2	-			-		1.4		7.3		1.1	me I	1.3	et 1	1.4 m gn	variable	1.2		1.0		1.4		1.4	1.4		6.	ing	litt
		Lacin. X	0	little	ou :			5	0			2		P	./70.	2		10.0 = 1.1	SS		le s									\sim				miss	ery
					7/31;			77.0	12.0	α. 		11.5		13.7	7/31/	10.5		10.	left;	0.6	little	11.9	missing;	9.2		0.6		9.3		10.3	0	۵.	10	plants missing,	ated, very little
Days	to	Det harv.	113	inin			7; no	7	126	26	-	901		10	ing	16				113	rery	901		901		91		26		16	16	iate		pla	iate
\vdash	+ -	er L	2	rema	mair		rigol 7	_	9	9		9-6		16 1-9	mair	26 2-9	ند	9	flov	2-3	. C & .	4	ante	4-5 106				2		2-6 97	45	fo]	Н	Some	fo]
				ers w	is it		or v		pr & w 6			pr			s re		d se		ral		Si2		le pl			we yel 4						sely		ad,	sely
	Flwr.	COTOL	M	flowers or & w	ower		od s	24		; 3		W &		×	ower	X	800	M	seve	lav	lant	M	Som	×		× %		¥		M	W	spar	pr	s de	spar
	No.	LVS	8	Very leafy; several flowers remaining; 4-6 75 70 6-8 or & w	several flowers remaining	3-6	Variable plant size; some plants poor vigor; no	7/31	Tur. t 72 50 6-7	7	remaining 7/31.	7-8 w & pr 5-6 106		2-1	several flowers remaining	2-9	Several flowers remaining 7/31; good set.	4-5	set; several flowers	1-4	Some plants missing, variable plant size; very	3-7	7/31; some plants	7-8	7/31.	2		2		1-9	3-5	some plants sparsely foliated.	40 4-6 pr	plant size; some plants dead, some	diseased, some plants sparsely foli
			45	seve70	ever	40	ome]	370	200	09	ing	09	ng.	65	ever	09	ing			20	aria	20				55		30		09	20	pld =	0+	ome]	p pl
	Plant	nt.x wtn.	~	ıfy;		~		יר כמי			nain		nain	10	S		ain		23.69	- `	7 6 S		nain		nain		ods.					Some	~	S . S	SOME
			2]ee	Size	3-5 80	Size	ers ren	72	65	ren	5-6 83	ren	5-7 115	Size	9-7 80	ren	20	sing	4-7 72	Sing	100	ren	6-8 90	ren	4-5 35	d po	2-4 25	ts.	71 105	95	ed;	3-6 50	Size	eq,
	173 00	orig. Hab. Vig.	4-5	Very	Variable plant size;	3-5	ant	- NV PPS	_	7	Several flowers	5-6	Several flowers remaining.	5-1	Variable plant size,	9-1	wers	<u></u>	Some plants missing; good	1-17	mis	3-1	Several flowers remaining	9-9	Several flowers remaining	7-17	Some constricted pods	2-1	Very small plants.	Z.	4-5	Possibly diseased;	3-6	ant.	seas
	5	an.	، د	دب أ-	e pl		e p]	ا لو	ַר ל	نـــ	f1c	42	f](Д	e p]	d	. flc	Q	ants	Q;	ante	Q	flo	ρ ₁	fl(P.	nsti	م	1a11	2	Q	y di			
	T	다! bC		'Mercan' India t	iabl	.cl	iabl	• 679			eral		eral	Tur.	iab]	Tur. p	eral		e pl		le p]		eral		eral	Tur. p	ie cc		y sn	Tur. p	,	sibl	Guat. b	Variable	possible
		Ori	Tur.	'Me Ind	Var	India	Var	Seve	Tur	Tur.	Sev	Tur.	Sev	Tur	Var	Tur	Sev	Tur.	Som	Tur.	Som	Tur	Sev	Tur.	Sev	Tur	Som	Tur.	Ver	Tur	Tur.	Pos	Gua	Var	pos
	F	r.I.No.	171791	174984		174916	175808	020617	175845	175863		175864	,	175865	,	176692	,	176695	,	176705		176708		179002		179003		179403		179411	179412		190073		

Pod

i6	ses	Bact.	7	9		61	,	ω,	8/19.	0		0		9		3		N		0		+6		+6	+6		ω	(Υ	6		8	
	Diseases	Virus	7-0	0-4		∞			et	_		0				2		2		9		2		a	9		9	-	寸	m)	+6	, 02/
	11	Color Vi	pl gn	t)		blk			, little	ov blk	1	blk		ov w, br spl 9	blk			red pr		t spl pr		t spl	pr, br		rous. w & br		¥	F	t spl	gr vel-gn	flowers left.		bloom 8/4/70
	Seed	Shp.	ob1	ob]		trun	% OV	pl ov	poor vigor,	pl ov		٥٨		pl				m or		m ov		pl ov			and vigorous.	ı	m pl ov		Tao	s-m obl			no
		SZ	H	ü		W				ξΩ		Ø		S-II				S-III		S-m		ល			leafy a 5 m		Sam	¥*.	E 111	Ω ş	some		small;
		Shat.	2	9		2	,	9	dying,	4	មន្តន.	1		5				4		2		2							\sim	9	still		
+	Or		+	+		+		4	plants (,	leafiness.	!		+		ł		2		+		+			quite +		+	•	+	+	•	,	row very
		Curv	47	5-8	`	26	`	26	, pla	9		9	١	9		9		6-9		3-7		45			still 6-8		1-4	(0	6-8	leafy		in
		Shp.	4	Ç-4		4-1		4-1	small	G-1 -	variable	4-1		G-4		Ç⊷		Ç-1		qi		9-4			n 44		. H	c	i-1	9-1	quite		plants
		Col.	yel &	m gn		m gn	spl pr	m gn	very	m gn	plants; ve	u _S u		dk gn	spl pr	m gn		m gn		m gn		m gn	spl pr		n 8/19/70 m gn		dk gn		T Gu	m gn			plants; most pl
		Wth.	1.1	1.4		1.0	•	0.0	still		. '	1.5		1.2		1.2		1.5		1.3		J.3			bloom 1.8		1.3	r	1.3	1.0	lost r	,	nts;
		Lgth.x	11.4	12.7		10.1	or.	6.2	spod (ص ش	very small	10.0		12		디		7.5		10.5		0.6			70, no 13		11.5	Ø	T+	9.5	sing		dead pla
Days	to	Harv	6-7 91	901		16	vigo	113	3/4/70			113	0	113				7 113		113		4-5 113	•	:	1 8/4, 91	ds.	F	_	007	106			\sim
		Set		m		Н	poor	٦	a]] {	m	e } sc		plant	т М		3-5		5-7 1		m			size.		bloon 6	ge bo	2-1	plar	3~5 T(7	plant		ssine
	FIWE.	Color Set Harv.	w & pi	lav		pr	s very		rery sm	pr	ant siz	pr	some very small plants.	pr	ıy.	pr		nd.	. Y.	nd		pr	plant		ve, no	Some very small plants, large pods	W	Variable plant size, some plants		5. Dr	some plants		Several plants missing;
	No.	LVS.	9-4	4-7	ů	3-6 pr	plant	2-5	111	2-5 pr	e pla	11	very	<u></u>	busi	8-9 pr	ά.	50 7-8	lear	_		2-9	iable	∞	t sig	plant	5-7 W	Size	7-0	ssing. 5-8 or	size	2-5	1 ple
	-	Wth.	740	45	t siz	047	most	30	ds st	30	riabl	3-7 92.0 60 4-7 pr	some	20	quite	49	gorou	20	quite	70	row.	70	, var	09	plan 55	mall	45	plant	4 7	Some plants missing. $3-7 47 45 5-8$	lant	30	evera
			30	•	plan	20	ing;	32	s; po	8	i; va	95.0	ize,	01	ize,	55	te vi	0,2	ize,	35	g in	+3	leafy	54	iable 43	ery s	다.	able .	2 '	p.tan 47	le p	ω,	٠ کا باہراء
	,	Vig. I	4-5	aranten 4-8 50	iable	2-5 50	miss	2-4 32	plants	2-5 30	s dead	3-7	plant size,	02 2-4	ant s:	6-8 65	, qui	02 2-9	ant s	5-7 35	issing	5-7 43	and .	6-8 54	, var.	ome ve	5-7 41	Varie	2-0	Some p. 3-7 47	Variable plant size;	2-4 58	Frang
		lab.	ھ	D Cu	Var	P4	lants	Ω	nall	م	lant	P4		Q	le pl	Q	leafy	ρ	le pl	Q	ant m	م	oushy	Q	leafy b	· .	رم '	0	۵.)a. b	•	رو	sean (
		Orig. Hab. Vig. Ht.x	Mex.	'Ferijol Cuaranteno' Belg. b 4-8 50		Guat. p	Some plants missing; most plants very poor vigor.	Guat.	Very small plants; pods still very small 8/4/70;	Mex.	Three plants dead; variable plant size; some	Mex.	Variable	Tur.	Variable plant size, quite bushy.	Tur.	Quite leafy, quite vigorous.	Tur.	Variable plant size, quite leafy.	Col.	One plant missing in row.	Col.	Quite bushy and leafy, variable	Col.	Quite leafy, variable plant size, no bloom $8/4/70$, Kenya b $4-6$ 43 55 $4-5$ w 6 91 13	'Mauta'	Kenya b	'Mivanga'	kenya p	'Syi Moa' Kenva b	"No. IV".	Pak.	'Vine Bean Grang'. Several pla
		P. I.No.	197690	1990418_GC	N	200967		201365		201374		201493		204721		206979		206981		207130		207134		207413	209806		209807	0.000	ZTOKOZ	209816		219703	

5	٢
1	

	Days +		
	Plant No. Flwr. to Seed	Diseases	ases
P.I.No.	Orig. Hab. Vig. Ht		Bact,
224717		6	6
	Variable plant size; some]		1
224.(55	Covering; no bloom 8/4/70, no bloom 8/19/70.	0	_
224725			+6
t	Variable plant size; some plants dying.	, br	1
224,628	Mex. b 4-5 35 40 3-5 I LI9 9.3 . f m gn f 7 - 5 s ov It	or y	_
224733	13 Mex. p 3-5 60 40 6	9	8
224735		1, br 7	4
0 12 100	Variable plant size.		(
224743	Mex. p 3-6 75 40 3-6 2 97 10.5 0.9 mgn f 4-7 + 5 s	m	+6
226476	Some plants missing; variable plant size. Ethio. F μ -7 100 μ 5 μ -6 w 5-6 97 9.6 1.1 m gn f μ -8 + 7 s-m ov t	spl gn 4	+5
	Variable plant size.		
226521		<u></u>	7
226525	Ethio, p 2-5 83 40 2-5	0	0
	Variable plant size; s	\	`
226661	Iran p 2-4 50 30 2-4	46	4
1	Small plants, no bloom 8/4/70, no bloom 8/19, plants dying.		
226862	Sp. p 3-6 70 40 3-6 2 106 10 1.4 mgn f 4-7 - 4 m plov	1d1 6+	5
226883	Alubias Finta de Leon'. Variable plant size. spl pr sed sed S 5 6-8 pr 7-8 106 11 1.1 yel f 6-9 + 7 s-m obl dk bl	b1 2	9
	'Flageolet'. Very vigorous; good set; quite leafy.		
226888	Sp. b 7 30 30 6-7 w & lav 7 106 16 1.1 yel		m
LOGGOO	'Judia Britle'. Very large pods; long slender pods; some plants missing good vigor.	t sp	e, L
760022	Sp. p 4-1 90 45 5-6 Lav. 2-5 LL3 L5 L.4 m gn r 4-1 - 5 s plov red	l, br 6	2
226893		pr h	ħ
COCOO.	'Maculata'. Quite large pods.		!
720074	Sp. p 7-8 145 60 8 6 97 9.2 1.3	6-9 M (_
	'Mantecozade Dragon'. Quite leafy.		p.

Pod

) 。	58	Diseases rus Bact.	9	4	m		7	5	7	ŧ	2	0-0	1	7		+6-9		89		+6		t 6	∞		0	,	9	<u>-</u>	
		Dise	1-3	2	6		2	77	1,70.	(α,	LK O		2		r.		7-0		+6		0	_		0		m	3-6)
		Color	blk, w				trun		set 8/19/70 gn & t 1			red & blk	ا ا ا ا	j N									t br				~පි		
				M M			obl tr			•	pl ov br	Č		obl w		w vo		harvest	missing.	harvest		trum w	ov 1t		harvest		fl ov	fl w	
		Seed Sz. Shp.	ΛO	s-m fl					8/4/70, no s-m obl		S-m D	رد			•			no har	s mis	no har					no har		s-m f		
		Shat. S	ω α	5	no	harv.	5 H		bloom 8/ 3 s		S	¥		山村	foliated.	5 m		Д	plants	п		2	2		Д		σ 7	8	
		or Si	+	+	1	Land.	+		no ble		+	1			Ly fo				some			+	+			·	+	+	
		Curv.	68	5-6	10	,	2-8		leaves; 1	(6-0	0-9	`	3-7	perse.	+ 9			9/10,		•	3-6	3-6				35	wn. 6-8	
		Shp.	ы	ы	4-1		⊊		on lea	•	Ca	pl or f	i ș	ે. લુંલો					m 8/1			Su.	4-1	ug 1			ا ب	d brown. f 6-8	
Pod		Col.	yel	m gn			m gn	•	damage c		मा देव	yel s	an] nr	म हिप	plant .very	m gn			no bloom 8/19/70,		9/70.	n gn	gn spl	pr, m gn				turned m gn 1)
		Wth.	1.1	1.2	H د		1.2			-	1.4	00), -, }	,	one p	1.1			8/4/70; n		bloom 8/19/70.	7.7	o.			-	1.4	pods have 3 1.3	
		Lgth.x	10.5	17	6.9				me insect	i c	10.5	-	1	19	missing;	11		;	m 8/4/		0		11.7	£0		,			
	VS .				9		ו לינולי	3110	00							(,)			ploom		70; n			issing				ma	
	Day	to Set Har	7 91	7-8 97	H		4-5 9	7 7700	leafy 6-8 1	1	7 106	5-6 97		4-5 97	plant				og; nc		1 8/h/	σ.		ants m			4 91	Liated 6-79	•
		Flwr. to Color Set Harv.	pr	e. yel			20 2-3 lav 4-5 91 10.2	ਹ ਹ	quite W		Q	7. V	4 24	sqr.	some				missim		Five plants in row; no bloom 8/4/70;		W	Several plants mi			M	sely foliated; yel & 6-7 97	wh
		.1		int size 6-7	5-7		2-3	3-7	lants			•		3-6	pods;		•	3-7	lants	36	om; mc	9-	~	Sever	-5	3/4/70	7-	sparse -8	
		th. Lvs		ptant 5 6-	50 5		20 2.	35 3	ost p		35 g	7	-	40 3.	ender	9 0	e set	0 3.	ome p.	5 3	in r	ė.	c'i	re.	. 3-	Loom (-1	1ants spa	
		Plant t.x Wt	30 5	lable 15 5		ze.	5 2 5	5 3	ze; m 5 5		76 3	טרר		7 7	ng sl	5	littl	0 3	ze; s	1 1	lants)†	20 5	Fiac	7 3(no b	0:1	st pla 0 6	
		ig. H	-7_1	Variable pla 7 115 55	5-7 115	unt si	5 25	3-7 85	ant size 5-7 45	set.		7		4-6 91	G	9 1	Very	3-6 50 30	nt si	4-6 94 45	ive p	4-5 4	2-6 1	e St.	2-4 57 30 3-5	rous;	2-4 20: 20 1-4	7-8 80	us.
		lab. V	र ल	or'.	large p	pl	b Holf	d D	Le pla	good	Д		יי ה קינ אייי	od an d	idera'	م	. 0	Q	e pla			۵	ρι	out d	Q	vigo	ِ م	nife' p	igoro
		Orig. Hab. Vig. Ht.x Wth.	Fr. p 2 4-7 130 50 3-7 pr	M.Aust. p	Very large pods. Iran p 5-7		W. Va. b 5 25	Ec.		Fairly good set.	N.Y.	÷	Swer Tri	very wide pods. Chile p 4-6	Enreds	Chile b 7 65 50 6- $\tilde{7}$ 1 11	'Canario'. Very little set.	Chile b	Variable plant size; some plants missing; no	Chile p	50		USA	'Mangetout de St. Fiacre'.	Mex. p	to	Fr.	'Case Knife'. Most plants sparsely foliated; Fr. p 7-8 80 60 7-8 yel & 6-7 97	Quite vigorous.
				A											-									A.					S.
		P. I. No.	226896	227115	229771		236467	241794	262163		278679	281 E07	(1707	281969		281986		282018		282047		282693	302535		309753B		310469	310470	

	Diseases	Bact.	6	+0		+6		0	(+6		ω ι	^			6			.4	2-4			m		0-5			2-5		9	9)	p.	5
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		Color	blk	17	È	W		W		M		blk f fr	7	red & l		W			12	t spl	dk br		t spl	dk br	br., t	spl br		t spl l		t spl	br & +		br, t	
	Seed	Shp.	OV.	\$	4	۶		VO		ΛO		ΔO L	^ T			kid.			no harvest	obl			obl		obl	ize;		00		opl	Cho	1	opl	
1		Sz.	ß	ď	2	w		w		ເນ		ω (=			N-S			no h	H			m		M-S	plant size;		E-S		S-m	E		日	
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		Curv.	78	77		7-8		22		2-1		20-	t1			25				1-4			4-8	pl pr	gn r 3-7	sparsely foliated, variable		74		3-6	νη Ω		3-8	
7		Shp.	J Tas	pr	4	01 f	r	9-1	small	4-1		С Н :	4	pr-		Graph Street				£4	gn		H	ej s	n r	liat		۲		ы	۶	ı	ы	
7		001.	gn si	0	100	gn spl	pr, pr		$\overline{}$		· spod ·	m gn	118 III	set. spl		yel	m gn			yel			yel	t. & 4	1-m £	ely fo		m gn		m gn	m gr		m gn	
		Wth.	1.0	7	ttle set	1.0					small	0.1	7.0	good se		1.0				1.0	r			good set. & yel spl pr				0.		1.1	(1.2	
		Lgth.x	7.8	7	֝֝֓֜֜֜֜֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֓֓֓֡֓֜֜֓֡֓֡֓֡֓֡֓֜֜֜֓֡֓֡֓֡֓֜֜֜֜֓֡֓֡֓֜֜֜֡֓֡֡֡֡֡֡	7.8		\sim	e set;		still;	8.5				9.5	r small			16.5	slender				14.5	plants		12		15.2	١٥.		14.1	
Carro	rays to	Set Harv.	16	305	smal.	97		16	little		s set;	16	77	folia		16	fairly			90	long		01	1-1	01	some		16		16	26	-	91	
ļ-		Set	-	0	Verv	-		N	ze;	N	ittl(6-7 91	0 1	sely	4	7-8 91	OW ;			8	ods;		1-8	sely	2-9	ing;	ds.	9		· ·	-	ing.	-	
	Flwr.			E.	Very little set: nod still very small	¥			Some plants missing; variable plant size;	M	very 1	5-6 40 40 5-7 pr 6-7	7.07	field day; some plants sparsely foliated;		W	Staked for field day; fairly uniform row; fairly			lav 🗐 8	set, very large pods, long		pr	Staked for field day; some plants sparsely	pr	Staked for field day; some plants missing;	variable leafiness; good set, large pods.	pr		lav.	nr	s miss	14 R.I.b 7 33 45 6 pr & 7	707
		•1		4	pod :	4 6-	Variable plant size.	Ó	e pl		ng:	<u>-</u> v	, O	lant			uni			<u>-</u> -	ery l		<u></u>	lant	9	lant	, la	9			ý	lant		
	No	김	9	7	et:	4	lant	ψ,	riabl	2	nissi	<u>√</u> -	1	J emc		<u></u>	airly		20 1-4	50 5-7	t, ve	day.	1-4 04	J auc	2	J euc	d set	9-4		1-9	5-6	ome r	• 9	
	Plant	x Wth.	710	01(בן ה ה	100	le p	70	, va	0 40	nts 1	40	22	S : S		30	W; f		20	50	d se	eld	140	W; S	707	W; S	600	710		70	70	N: S	45	
	П	出出	6-7 65	542	7 11t	2-4 04 47 6-4	ariab	4-5 45 40 3-6	ssing	247	e pla	0 70	(7)	ld da	o O3	6-7 25	ld de	٥٠ د	4 16	8 40	; goc	or fi	5-7 30	ld de	07 2	ld de	ness;	5-6 30		04 /	te pods.	ld da	33	
		Vig	9	9-246	Ver	7-1			s mis	2-	Som(7			bod	9	fie	od s	-	9	rons	ed f	7	fie	3-	fie	eafi	2		6-1	rge]	fie	7	
		Hab.	Q.	-11 49-		а. Б	-	م	lant	٥	ne.	ہے م	3	1 for	large	۵	1 for	3, 80	ھ	۵,	vigo	stak	Д	d for	۵	d for	ole 1	٩	DS.	م.	. La	for	L.b	
		Orig. Hab. Vig. Ht.x	Neth. p	Cornell 49-242	'Burnia':	Austra. p	'Gallaroy'	Austr. b	Some 1	Austr	'Kerman'	Ethio. b	N.1.	Staked for			Stake	plants, good set.	N.Y.	S, R.I	qui te	pods; staked for field day.	R.I.			Stake	varia	R.I.	'A-1 DS	-2 R.I.	DS2	Stake	14 .R.	
		P.I.No.	326418	2)13733	747133	343734		343734-1		343735		347637	01111-5		•	G-11498B			G-11504	G-12364DS, R.I. b 6-8 40			G-12365		G-12366A			G-12366		G-12366A-2 R.I. b. 6-7 40	"DS'. Large pods. G-123664A R.f. b 4-6 30		G-12366AA4 R.I.b	

p.	60	Ę	act.	_		8	7.) - 3		1-4	a	0	7.1	1-6		0-5		V	0-3		1-5	C)	0	1	37	3-0	
			Virus Bact	2-3		9	77	Q	spl br	1-3	η-0 γ			CJ		0-3		T-0	9		5	<u>u</u>	7			spl br	
			Color	br, w		blk, w	r.		Ø.		ر ا	br	ر د د	w spl	br, w				br			or or, solbr	Spl	1 24	~	br, t sp w spl br	4
		5000	- 1	obl b		obl b	s obl w			obl b	obl b			M AO	,CQ			3 ∧	obl t&		op] p	sr obl w			obl w	obl w	}
		۵	Sz. Sh			s-m o				S-m o												S-13				S-III 0	
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			Curv	1-7		3-6	3-6	14-8		4-7	brown 25	, 9	,	7-9		9-4	9)	2		<u>. </u>	69	79	-	8-9	5-8	
			Shp.	ы		۶	br bn r	بر ھ		٤	ning	ب وي		ы		ы	\$	4	G-1		ы	۴۱	Я		ы	Si	
	Pod		Co1.	y, m	gn	yel		yel (m gn	m gn	s turn	gn		yel	% gn	gn	\$	70	gn		yel	yel	gu		gn	gu	
			Wth.	1.1	Size,	1.1	Н	0.		o,	ny pods turning			1.0		1.0	C) +	0.5	,	1.0	1,1	0.0		1.3	1.2	
			Lgth.x	17.5	for field day, variable plant missing large pods.	14	14.2	13.2		11.2	plants sparsely foliated, many 3-5 w 4-5:91 14.8 1.	for field day, some very long 3-4 w 2-4 83 12.7	-	11.2	day.	9.5	leafy.	0.01	8.6	l (12.5	12.5	12.5		13.0	13.2	
	Ì	Days +0	-1	76	iable	91	size 97	d		82	oliat 91	e ver 83							119			91	106		113	١.٥	
		Ä '	Set H	5-7 97	, var	yel, w 4 91	plant si 3-4 97	7-8 97	,	6-7 82	ely f	some 2-4 83		7	for f	-), fa		N		06 9-17	9	9		9	6 poor	4
		Flan		yel	day	el,w	.ble]	ods.			parse	day			ked 1		15/1									lare	3
		Œ	·	₽>	ield ng		rariat W	ier po		M	its s	reld w		W	sta	M	et a	•	×		×	W	×		W	w afy,	•
		2	Lvs.	7-8	Staked for field day, varial	2-5	Some plants very poor vigor, variable plant size. R.I. b 3-525 33 4-6 w 3-497 1	long slender pods.		3-5	. plar 3-5	77	}	4-5	Some pods yellow splash brown, staked for field	<u>-</u>	little set 8/5/70; fairly	eaves	ABA R.I. b 5 36 40 5	S.	٥	5	2-9		2-1	Variable plant size. $6 - 7 + 0 + 5 = 7 + 0 = 106$	2
		Plant	Wth.	50	Staked	40	r vie	long 45		30	Many 35	part.		047	ash b	55	, lit	rge l	07	very thin pods.	2	30	. 45		70	45 fair	
		٦	Ht.x		St e pl	25	. poo			20	lon.	2		35	sp]	70	ants	y la	36	thi	20 20	20	day 40	ctio	45	tze.	
			Vig.		nent.	2-5 25 40	3-5 25			9	lecti 4-6	tion.		5	ellow	07 2	11 plants 6-7 50	ver,	5		5-1 30	2-6	field 6-7	stri	9	fant size	
			Hab. Vig.	۲۵,	component.	q	lants	Quite small R.I. b		ھ	BS early selection.	Early selection.	ants	r. b	ods ye	Д.	Several small plants,	Leafy	و .	Few plants,	M.I. D	بر	Staked for field day.	Some pod constriction.	0	Variable plant size. C R.I. b 6-7 40 Variable plant size.	4
			Orig.		Green	R.I.	Some p. R.I.	Quite : R.I.		R.I.	B.I.	rly a	Few plants	2 R.	ome po	R.I.	vera	ite]	A R. 1	W pla		2 R.1	aked A R.I	me pc	R.I.	riabi R.I. riabi	
					G						BE 5BS-1	Es SBS-2	FF	SBSA-	SS	5BSAA	Se Se	ng On	SBSAE	Fe to to	OBSE-	BSB-	St BS-B	So	BSBB	BSC	
			P. I. No.	G-12366B		G-12366B	G-12366B	G-12366B		G-12366	BS early selecti G-12366BS-1 R.I. b 4-6	Early selection of the Control of th		G-12366BSA-2 R.I. b	•	G-12366BSAA R.I. b	Several sma		G-12366BSABA R.I. b	קאכטר ש	4-1230065E-1	G-12366BSB-2 R.I. b 5-6 20	G-12366BS-BA R.I. b		G-12366BSBB R.I. b	Variable G-12366BSC R.I. b Variable	

Second Single Curv. Cu	Shp. Curv. Shat. Sz. Shp. Color Virus	
1. Shp. Curv Shat. Sz. Shp. Color Virus 1. r 5-7 - 3 s-m ov wspl 2 2 set. 1. r 66 - 3 s s-m ov wspl 3 2 set. 1. r 6-9 + 5 m obl br, blk 0-3 1. r 6-8 - 4 s-m obl tspl 0-2 1. r 6-8 - 4 s-m obl tspl 0-2 1. sgy k br 1. r 6-8 - 4 s-m obl tspl 0-2 1. r 6-8 - 4 s-m obl tspl 0-2 1. r 6-8 - 4 s-m obl tspl 0-2 1. r 6-8 - 4 s-m obl tspl 0-2 1. sgy k br 1. r 6-8 - 4 s-m obl tspl 0-2 1. sgy k br 1.	1. Shp. Curv Shat. Sz. Shp. Color Virus 1. r 5-7 - 3 s-m ov wspl 2 2 set. 1. r 66 - 3 s m obl wspl 3 2 set. 2 r 66 - 3 m obl br, blk 0-3 1 r 5-7 - 3 m obl br, blk 0-3 1 r 6-8 - 4 m obl br, blk 0-3 1 r 6-8 - 4 m obl br, blk 0-2 1 segn r 7-9 - 4 s-m obl tspl 0-2 1 segn r 7-9 - 4 s-m obl tspl 0-2 1 segn r 7-8 - 4 m obl tspl 0-2 1 segn r 6-8 - 4 m obl tspl 0-2 1 segn r 6-8 - 4 m obl tspl 0-2 1 segn spl red 1 r 6-8 - 4 m obl tspl 0-2 1 segn spl red 1 r 6-8 - 4 m obl tspl 0-2 1 segn spl red 2 r 6-8 - 7 m obl tspl 0-2 1 segn spl red 2 r 6-8 - 7 m obl tspl 0-2 1 segn spl red 2 r 6-8 - 7 m obl tspl 0-2 1 segn spl red 3 r 6-8 - 7 m obl tspl 0-1 1 segn spl red 4 s-m obl tspl 0-1 1 segn spl red 5 s m obl tspl 0-2 1 segn oble bole 5 s ov t 3	Flwr. to
r 6 - 3 s-m ov w spl 2 set. r 6 - 3 s obl w spl 3 set. k r 6-9 + 5 m obl br, blk 0-3 lk r 6-8 - 4 m obl br, blk 0-3 lk r 6-8 - 4 s-m ov t spl 0-2 gn r 7-9 - 4 s-m obl t spl 0-2 lw r 6-8 - 4 m obl t spl 0-2 lon. k r 6-8 - 4 m obl t spl 0-2 lon. r 6-8 - 4 s-m obl t spl 0-2 lashes. r 6-8 - 4 s-m obl t spl 0-2 ion. k r 6-8 - 4 m obl t spl co-2 ion. r 6-8 - 4 s-m obl t spl co-2 ion. r 6-8 - 4 s-m obl t spl co-2 ion. r 6-8 - 4 s-m obl t spl co-2 ion. r 6-8 - 4 s-m obl t spl co-2 ion. r 6-8 - 4 s-m obl t spl co-2 ion. r 6-8 - 4 s-m obl t spl co-2 ion. r 6-8 - 4 s-m obl t spl co-2 ion. r 6-8 - 4 s-m obl t spl co-2 ion. r 6-8 - 4 s-m obl t spl co-2 ion. r 6-8 - 4 s-m obl t spl co-2 ion. r 8-1 t spl br r 9-1 t s	r 5-7 - 3	Set Harv.
set. 1	set. 1	~
# r 5-7 - 3 m obl br&w 2 # r 6-9 + 5 m obl br, blk 0-3 lk r 6-8 - 4 m obl br br lk r 6-8 - 4 s-m ov t spl 0-2 gn r 7-8 - 4 s-m obl t spl 0-2 lkgrr 6-8 - 4 m obl t spl 0-2 lon. lk r 6-8 - 4 m obl t spl 0-2 gn spl red r 6-8 - 4 m obl t spl 0-2 gn spl red r 6-8 - 4 m obl t spl 0-2 gn spl red r 6-8 - 4 m obl t spl 0 gr spl red r 6-8 - 4 m obl t spl 0 gr spl red r 6-8 - 4 s-m obl blk o oble pole. f 8 + 4 m obl w 7 t spl br no harvest o be pole. 5 s ov t	1 r 5-7 - 3 m obl br&w 2 1 r 6-9 + 5 m obl br, blk 0-3 1 r 6-8 - 4 m obl br, blk 0-3 1 r 6-8 - 4 s-m ov t spl 0-2 1 sgn r 7-9 - 4 s-m obl t spl 0-2 1 sgn r 7-9 - 4 m obl t spl 0-2 1 sgn r 6-8 - 4 m obl t spl 0-2 1 sgn spl red r 6-8 - 4 m obl t spl 0 gn spl red r 6-8 - 4 m obl t spl 0 gn spl red r 6-8 - 4 s-m obl t spl 0 cn spl red r 6-8 - 4 s-m obl t spl 0 cn o harvest o be pole. 5 s ov t 3	w 1 119 variable plant siz
\$\begin{array}{cccccccccccccccccccccccccccccccccccc	# r 6-9 + 5 m obl br, blk 0-3	w 3-4 91
18 r 6-8 - 4 m obl br 0-3 1 r 6-8 - 4 s-m ov t spl 0-2 gn r 7-9 - 4 s-m obl t spl 0-2 18gn r 7-8 - 4 m obl t spl gy 0-2 10n. 18gn r 7-8 - 4 m obl t spl gy 0-2 ion. 18 r 6-8 - 4 m obl t spl 0 gn spl red	it r 6-8 - 4 m obl br 0-3 it r 6-8 - 4 s-m ov t spl 0-2 gn r 7-9 - 4 s-m obl t spl 0-2 lkgnr 6-8 - 4 m obl t spl 0-2 ion. k r 6-8 - 4 m obl t spl 0-2 ion. k r 6-8 - 4 m obl t spl 0-2 ion. f 6-8 - 4 m obl t spl 0-2 gn spl red r 6-8 - 4 m obl t spl 0-2 ion. f 6-8 - 4 m obl t spl 0-2 ion. f 8 + 4 m obl t spl 0 t spl br o be pole. 5 s ov t 3	G-12366DS ₁ N.Y. b 6 40 50 5-7 pr, w 5-6 106 13.0
I r 6-8 - 4 s-m ov t spl 0-2 gn r 7-9 - 4 s-m obl t spl 0-2 l&gy & br gy & br gy & br l&gy & br gy & br gy & br gy & br l&gy & br l&gy & br l&gy & br gy & br lon. l& r 6-8 - 4 m obl t spl 0-2 gn spl red r 6-8 - 4 m obl t spl 0 lashes. r 6-8 - 4 s-m obl blk no harvest 6 o be pole. 5 s ov t spl br	I r 6-8 - 4 s-m ov t spl 0-2 gn r 7-9 - 4 s-m obl t spl 0-2 l&gn r 7-8 - 4 m obl t spl gy 0-2 lon. l& r 6-8 - 4 m obl t spl gy 0-2 ion. l& r 6-8 - 4 m obl t spl 0 gn spl red r 6-8 - 4 m obl t spl 0 gn spl red r 6-8 - 4 m obl t spl 0 gn spl red r 6-8 - 4 s-m obl blk lashes. f 6 + 4 m obl w 7 f 8 + 4 s-m ov w, br 0-2 t spl br no harvest o be pole. 5 s ov t 3	
gn r 7-9 - 4 s-m obl t spl 0-2 1&gn r 7-8 - 4 m obl t spl gy 0-2 1&gn r 7-8 - 4 m obl t spl gy 0-2 ion. 1& r 6-8 - 4 m obl t spl 0 gn spl red	gn r 7-9 - 4 s-m obl t spl 0-2 1&gy & br gy & br 1&gy & br 1&gor f -8 - 4 m obl t spl gy 0-2 1on. 1& r 6-8 - 4 m obl t spl 0-2 gy & br 10n. 1& r 6-8 - 4 m obl t spl 0-2 gy & br 10n. 1g spl red	G-12366ES, R.I. b 5-7 30 40 6-7 pr&w 4-5 113 10.7
gn r 7-8 - 4 m obl t spl gy 0-2 l&gnr 6-8 - 4 m obl t spl gy 0-2 lon. l& r 6-8 - 4 m obl t spl 0-2 gn spl red	gn r 7-8 - 4 m obl t spl gy 0-2 ion. 1& r 6-8 - 4 m obl t spl gy 0-2 gy 1& r 6-8 - 4 m obl t spl 0-2 gy gn spl red r 6-8 - 4 s-m obl blk 0-1 lashes. f 6 + 4 m obl w 7 f 8 + 4 s-m obl w 7 f 8 + 4 s-m obl w 7 o be pole. 5 s ov t 3	3-5 pr 4 91 1.20
10n. 1& r 6-8 - 4 m obl t spl 0 gn spl red	10n. 1& r 6-8 - 4 m obl t spl 0 gn spl red r 6-8 - 4 s-m obl blk 0-1 lashes. f 6 + 4 m obl w 7 f 8 + 4 s-m ov w, br 0-2 t spl br no harvest 0 5 s ov t 3	30 4-5 pr 6 91 12.5 40 6 lav 7 90 13.3
gn spl red r 6-8 - 4 s-m obl blk 0-1 lashes. f 6 + 4 m obl w 7 f 8 + 4 s-m ov w, br 0-2 t spl br no harvest 0	gn spl red r 6-8 - 4 s-m obl blk 0-1 lashes. f 6 + 4 m obl w 7 f 8 + 4 s-m ov w, br 0-2 t spl br no harvest 0 o be pole. 5 s ov t 3	Son
leahes. f 6 + 4 m obl w 7 f 8 + 4 s-m ov w, br 0-2 t spl br no hervest 0 5 s ov t 3	leahes. f 6 + 4 m obl w 7 f 8 + 4 s-m ov w, br 0-2 t spl br no harvest 0 5 s ov t 3	Fairly vigorous, staked for field day. N.Y. p 4-6 40 50 5-6 pr 5-6 97 11.5
f 6 + 4 m obl w 7 f 8 + 4 s-m ov w, br 0-2 t spl br no hervest 0 5 s ov t 3	f 6 + 4 m obl w 7 f 8 + 4 s-m ov w, br 0-2 t spl br no harvest 0 5 s ov t 3	plashes, s
f 6 + 4 m obl w 7 f 8 + 4 s-m ov w, br 0-2 t spl br no hervest 0 5 s ov t 3	f 6 + 4 m obl w 7 f 8 + 4 s-m ov w, br 0-2 t spl br no harvest 0 5 s ov t 3	leaves, no bloom 8/19/70.
f 6 + 4 m obl w 7 f 8 + 4 s-m ov w, br 0-2 t spl br no harvest 0 5 s ov t 3	f 6 + 4 m obl w 7 f 8 + 4 s-m ov w, br 0-2 t spl br no harvest 0 5 s ov t 3	for neons and and the
1.3 gn f 8 + 4 s-m ov w, br 0-2 t spl br no harvest 0 appear to be pole. 5 s ov t 3	1.3 gn f 8 + 4 s-m ov w, br 0-2 t spl br no harvest 0 sppear to be pole. 5 s ov t 3	Ind. p 3-4 30 25 4 w 1 119 13.2 1.2 gn
t spl br no harvest 0 sppear to be pole. 5 s ov t 3	appear to be pole. 5 s ov t 3	'Cook Pole'. Very poor vigor. Me. b 5-7 40 50 7 w 6-7 90 12
appear to be pole. 5 s ov t 3	appear to be pole. 5 s ov t 3	
appear to be pole. 5 s ov t 3	appear to be pole. 5 s ov t 3	
		Resembles other row with glossy leaves, several pla Conn. b $5-6$ 30 40 $6-7$

	Bact.	+6	0/		4		6		6	6		7	ness.	c	>	#	9	,
i	Diseases Virus Bact.	+6	01		0		9		9	-		1-2	leafiness 2	c	7-0	0-1	_	i
	Color	obl w	ct ct		≯		M		¥	v w, br		W	good set, variable					
,	Seed Shp.	f1 o	fl ov		ΔO		trun		ob1	pl ov w,			set,		f			
	SZ.	B	n-s		Ø		S - S		Ħ	ro.			good					
	Shat.	т	Н		7		7		<u>-</u>	7			/31; (
+	8 I	+	+		+		ð		1	1		1	ng 7		ı	1	1	ds.
	Shp. Curv.	2	49		8-9		7-8		£ 72	9	end.	4-8	flowers remaining 1-m gn r 4-8 -	а	0-0	3-6	8-9	slender pods.
Pod	Shp.	fJ	9-1		H		H			¢⊢ı	risor	ы	rs re		nta		٤	slend
	Col.	gu	n		m gn		gu		yel 8	gn	Compa	m gn r	flowers 1	г	בות נו	yel	m gn	long
	Lgth.x Wth.	1.3	long.		6.		1.0		1.5	T.2	Included for Comparison	1.2	Tendercrop' Variable plant size; some plants missing; some N.Y. b 5-7 50 50 5-7 w&yel 7-8 13.8 .9	(growing small plants	6.	"Kinghorn Wax". Very small plants; good set; long, slender pods. N.Y. b 7 35 40 7 pr 7-8 12.3 9 men	plants; long
		18	12.5		8.5		8.5		12.5	9.5	Inclu	14	issin 13.8	ti • C	いってのです。	14.5	ng, s	mall
Days	to Harv.	901	strici 91		113		91		16	91	vars		nts m	pod:	المال	P. H	t; lo	for s
	Set	m	5 91		7		5 1		7		Culti	<u>-</u>	T-8	ender	0-1	7-8	od se	set
į	Flur. to Color Set Harv.	¥	Maine Caseknife. Foor vigor, some pod constriction, It. p 5 30 35 5 w 5 91 12.5 Pods splashed red, some constriction.			<u>μ</u>	w&yel 5	[zc.	<u> </u>		Standard Cultivars	W	ze; som	long sl	pr roun 8/	N.Y. b 7 35 40 6 w 7-8	its; go	r; good
<u> </u>	No.	4	gor, s 5 onstri		3-7	ineus	2	inens	5	m	St	5-7	nt si 5-7	set;	7-4 ing h	6 E	1 plan	rm ro
	Plant .x Wth.	30 4	or vie		35	0000	04	COCC	30	25		45	e pla 50	good	50 +111mp	01	smal 40	unifo
í	Ht.x	3-4 30	30 30 d, se		35 ing.	eolus	30 n.	eolus	25	30 ctior		40	riabl 50	irly	- I	35	Very	rly
	Vig.	3-4	nife. 5 ed re		4-635	Phas	4-5 30 iction.	Phas	5	3 nstri		1-4	5-7	Fa.	Pod	7	, X	ू चि -
	Hab.	ρ,	Casek P plash	ਾਰੀ	b lants	ris x	Ponstr	ris x	٩	od co		p,	crop	ster	ם מ	1 .a	orn Wa	ive.
	P.I.No. Orig. Hab. Vig. Ht.x Wth. Lvs.	Me.	Maine Lt.	Phaseolus hybrid	USA b 4-635 Some plants missing.	Phaseolus vulgaris x Phaseolus coccineus F8	Neth. p 4-5 30 Some constriction.	Phaseolus vulgaris x Phaseolus coccineus F.	N.H.	N.H. b 3 30 3 Some pod constriction	1	G-19725 N.Y. b 4-7 40 45 5-7	Tendercro G-19724 N.Y. b	Harves	Protrider	.Y.	'Kinghorr	Execut
	0			olus		olus		olus	3A I			25 N	24 N					
	P.I.N	G-19657	G-20196	Phase	304809	Phase	263001	Phase	267763A	267763B		G-197	G-197	7201	C2) KT-5	G-18524	6-19763	

		Diseases	Virus Bact.	0-3 4		0-1 8		0-1 4		
		Seed	t. Sz. Shp. Color							
	+	or	. Curv Shat.	+ 6-1		+ 6		7-9		
L OC			. Col. Shp. Curv.	1-m gn f 7-9	.V.	gn f		14.2 1.2 1 gn r 7-9	shes.	
			. Lgth.x Wth.	10.1 1.4	, quite leaf	14.5 1.5		14.2 1.8	and red splashes	
	Days	Flwr. to	Color Set Harv.	9 m	rous, uniform	9 M	very leafy.	pr 4-5		
		Plant No. F	x Wth. Lvs. C	50 7-8	.'. Quite vigo	40 7-8	nirly vigorous,	40 4-5	'Improved Tendergreen'. Some pods have brown	
		P	Hab. Vig. Ht.	b 7-8 40	ben Yellow Eye	0t 7 d	e Kidney*. Fa	b 4-6 35	oved Tendergre	
			P.I. No. Orig. Hab. Vig. Ht.x Wth. Lvs.	S19028 N.Y. b 7-8 40 50 7-8 w 6 10.1 1.4	Sten	TA-70 N.Y.	'White Kidney'. Fairly vigorous, very leafy.	G-19764 N.Y.	'Impr	

PISUM SATIVUM

1969 Greenhouse Peas

First, Second, & Third Plantings

1970 Greenhouse Planting Second planting planted Aug. 14 & 15, 1969; second planting planted November 3, 1969; Seeds treated with Arason 75. First planting planted Aug. 14 & 15, 1969; second planting planted Jonath Aug. 14 & 15, 1969; second planting planted Jonath Aug. 14 & 15, 1969; second planting planted Jonath Aug. 14 & 1969; second planted Jonath Aug. 15 & 1969; second planted Jonath Aug. 15 & 1969; second planting planted Jonath Aug. 16 & 1969; second planted Jonath Aug. 17 & 1969; second planted Jonath Aug. 17 & 1969; second planted Jonath Aug. 17 & 1969; second planted Jonath Aug. 18 & 1969; second planted Jonath Aug. 18 & 1969; second planted Jonath Aug. 1969; second planted

L'se	
y 29, 1970 & March 6, 1970.	<pre>l=very variable l=poor l-light pi=pink l=few or poor r=rare l=large t=tan spl=splash 0=least</pre>
70 planting planted Januar 0/10/69, 2nd planting 2/2	5=medium d=dwarf 5=medium rst bloom. p=purple 5=medium i=intermediate pod. harvest of ripe pods. m=medium w=wrinkled gn=green dk=dark gy=grey 5=medium
third planting planted December 19, 1969. 1970 planting planted January 29, 1970 & March 6, 1970. 20 pots.maximum. Notes taken: 1st planting 10/10/69, 2nd planting 2/2/70, 1970 planting 5/12/70.	3 Uniformity 9=most t=tall d=dwarf by Habit t=tall
lanting pl maximum.	Col. 3 Uniformity Col. 5 Vigor Col. 6 Plant height Col. 7 Nodes - number Col. 8 Number of leav Col. 10 Days to Bloom Col. 10 Days to Bloom Col. 11 Flower Color Col. 12 Set of seeds Col. 13 Doubling Col. 14 & 15 Pod size Col. 16 Ovules Per Po Col. 17 Days to Harve Col. 18 Seed Size Col. 19 Seed Surface Col. 20 Seed Color Col. 21 Virus general
third p. 20 pots	Col. 3 Col. 6 Col. 7 Col. 10 Col. 11 Col. 11 Col. 11 Col. 11 Col. 11 Col. 12 Col. 13 Col. 14 Col. 14 Col. 16 Col. 17 Col. 18 Col. 10 Col. 12 Col. 12 Col. 13 Col. 14 Col. 16 Col. 17 Col. 1

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	Col		ğ.	na ua	1	gn		* 4	٦ -	a	ř	T T			gn, t,		gn	raph			seeds/pod.				-		ı, br	4		~4	
	Seed	•	_	ا	ı	ţ	t)	175227B.	200	90 U		>	دب.		9		r, w gn	and		ng		gn	'n.		09 09		gn	Wr.		gn	
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	82.			l E		目	H	od is	1 n	日	r	-1	Ħ		E		Н	ıd hi		日日	easily, 5	Ħ	grey-green		1 1		Ħ	目		田田	
ays	to Harv.		96	99)	91	91	Stucco pod is	(21	87	>	35	116		1 /2	•	8	Area of seeds around hilum and raphe				1/4			87	Shells easy, very attractive.	157	99	tle.		
Ovules Days		1						Stac					2-6			pods	29	eds				4-5	een		2-9	trac			brit	4-5	
Ovu]	Per	3	Ľ		-	<u>-</u>	9	ë.	0	5	t	_	7,		8-9	acco	9	of se		9	atec	4	e, Er		6	ry at	7	<u>-</u>	3y &	7	
	Wtn		<u>ا۔</u> در) [1.7	H.3	tan dark hilum.	,	1.2	,	T.0	H H		1.4	Some stucco pods.	2.3	rea		1.7	finely veinated,	1.7	Good yield, many seeds 2-tone, green vs.		1.6	, ve	0.7	7.7	flimsy & brittle.	1.4	
	Pod Size							dark								Som					nely		ds 2			easy					
			5.7	6.0		6.7	6.8	tan (5.7	0	N.	y. 5.7	ily.	6.3	ed.	9.3	sily				0.9	see		6.5	118	5.3	7.3	7, T	6.7	
	Set Dol.		1	۴		ы	•~	seeds	4	٢			shells very easily.	eas	9-1	inat	r 9.3	Shell very easily.		r 6.2	on ventral suture,	ы	many		ы	She	·r·i	۲	Pod wall very	Ç—1	
	C. 4		7 2	\		\sim	#	• 0	V	7			3 S	very	5	l, ve	_	Lver		9	al su	_	ld,		2	es.	Н ′	(0)		<u></u>	
	Flw.		M	. ¥e. ₩		M	A		N S N	M	•	ρ,	LLS Ve	ne11	PI	n end	M	Shell		M	entre	W	j yie		M	sutures.	Ω ₁	¥	cent.	M	flat pod.
	to Flw.		55	(60 <u>-</u>		92	eld.	veinated	2	94	pod	ر ا ا	shel.	r, S	34	ster	39	· ×		31	on V	31	Goog	1	39 CW		101	34	translucent.	2.5	flat
		,	ίΩ	nate		<u>-</u>	Poor yield.	vein	d	且	mall		ed,	elde	目	r to	ರ	n dr					ly.	,				≥i		rg U	ose,
	eave		6	vei.)				t c	9	d, s.	o .	inat 9	d yi		tape	0	whe		4	n st	9	easi		ω	tan	9,	9	leď,	о О	d 100
			25	d or)	-	. pod.	ght t	turi	N	yiel	<u>-</u>	e ve	Goo	4	ods	9.	kish		12	gree	≠	e11		50	kish	22	19	rink	12	broa
	Modes No. Col.			ette	ted.	N	ed/p	lig	e ma	N	lium	۱ 1/.	urp1	ty.	,	·•	7	pin		Н	en,	~	sh.		N	pin	CV.	~	d, w	-	ed,
	Plt.		748	t tan, n	stric	8 190	7 se	r pods 1	110 7 Jat	170	Med	τος	3e, I	aturi	167	1 dry	09	ated,		7 180	gre	175	ation		168	pods	200	210	icte	42	inat
	Vio.	C	<i>-</i> 00	ht ti 5	con	Φ	pods 9	dry	ver	ω	tan.	o r	Lar 8	te m	ထ	wher	0	veina		<u>-</u> -	sten	∞	veina		∞	Dry	တ ေ	∞	onsti	9+ 42	S, Ve
	, D.		ro	11g	ent,	cب	ome	ods,	2000	د	11,	، ۽ د	Fods t	H	دب	kish	ģ	at,	lor.	د ا	ersi	ىد	ine.		42	1d.	رب د	دہ	od co	rd	flat
	ب. ب	il .		very	sluc	20	s , b	d oo	stu		Sma	•		er.	_	pin		e fl	r co		st p		t, H	pod.		yie			d, p		tan,
	Imi		o o	00a, 8	tran	ω	og og	stuc	z spoa	4	ods,	E	Tut	ipli		pods	01	larg	ghte.	9	almo	Φ	shor	eed/	9	lent			e po	·	oas .
	Orio.	Q - 1	1st Planting	Dry pog, very light tan, netted or veinated Ind. 8 t 5 120 13 3 1 3	Pods translucent, constricted.	Tur.	Stucco pod, some pods 7 seed/pod. Ind. 8 t 9 180 18	Some stucco pods, dry pods light tan,	Some nods stucco, very late maturity.	Ind.	Dry pods, small, tan. Medium yield, small pod.	Eng.	King lut Pods large, purple veinated, Wisc. 7 t 8 200 20 9 1	'Mult	USA 8 t 8 167 14 7 m 34 p 5 f 6.3	Some	disc.	Pods large flat, veinated, pinkish when dry.	is lighter color.	Wisc.	Pods almost persistent green, green strip	disc.	Pods short, fine veination, shell easily.	4-5 seed/pod.	Neth.	Excellent yield. Dry pods pinkish tan.	Mali.	Thail.	Edible pod, pod constricted, wrinkled,	Austr.	Dry pods tan, flat, veinated, broad loose,
	NO.		ਲਿੱ																				-								7
	Plt. P.T.No. Orie, Unif. Hab. Vie. Ht.	• 1	1st P1	166142		171810	175227	010081	7007	183945		JOSOTZ	210590		210669		210670			222534		224677			244104		271114	286607	1 1 2	314.(95	
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Virus	۲.		ily.	
	dk gn spotted black. gn, t	ဗုံ	l tn rield. gn coorly filled. gn con T6-194. b green spotted t	
Col.	ted t	t. Js	fil spo	d lqs
	dk gn spott gn, t	l tn gn, t Poor yield. l t Seeds	leld. gn corly on T6. t t	en sl
Seed Surf.	d d gree	Po Po	yield gn gn poor gn gn gn gn gn greet gn gn greet gn gn greet gn greet gn gn greet gn	ස ග සහ සහ
ω	r inely r ds gr	wn.	r l tn llent yield. r gn Pods poorly fill r gn wilson T6-194. r b r t r t v l gn v l gn v shells very e	4 44 4
S S	Seed coat finely 66 m r r asily. Seeds gre	1.5 5 87 1 r ilum. 1.3 5 108 m r n but finely spotted brown. 1.3 7-8 87 s, m r Pods brittle, thresh easily.	Thresh easily. Excellent yield. 1.4 7 80 s-m r gn sembles mite injury. Pods poorly filled. 1.7 4 60 1 r gn ttractive, full green. Wilson T6-194. 1.2 5 66 s r b ods dehisce & spiral, seeds green spotted 1.2 5 87 1 r t 1.2 5 87 1 r t 1.2 5 67 m w l gn rey-green. Balloon pod, shells very easily	s I s E
ις .	s coat	. 1 8 m ted l	Exceller Exc	
Days to Harv.	h-5 66 lum. Seed c 5-6 66 very easily.	87 108 spotte 87 thre	84 E BO injur 60 111 gr 66 8 spir rown.	121 86 143 170
Ovules Per Pod	4 e	5 5 7-8 7-8	ce fitte	
Ovul Per Pod	ilum 5 ver	5 finely 7-8 brittle	Sh eamins mi tive, tive, 5 otted 6 creen.	6 9
e fth.	1.3 lack hi l.4 shell	1.5 1.3 but 1.3 Pods	1.4 Thresl 1.4 esembles attract: 1.2 pods del 1.2 ely spor	0 90 1
Pod Size gth.x Wt	blac 1	hilu lan b	reserved process	
Pod Size Lgth.x Wth.	1.5 2.5 3.5	7.2 lark 5.9 ish t 6.0	ovule, 6.8 ight 1 seeds 5.0 n dry 5.8 n, fired, kled,	7 8 8 5 8 5 7 1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
	Seeds dark green, black hilum. pi 8 r 5.5 l.4 5-0 l at ventral suture, shell very	f 7.2 m, dark r reenish t f 6.0 gh ovule.	f igh or right of reference of the reference of reference	
Set Db1.	ark r	f tan, r Gree f	high first rield, r, wh	h h
Set	B de R	27 4 4 4 6 6 6 6 6 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9	sed, 14 f. 7 7 7 7 7 7 7 7 7 7 7 7 7	0 m d 0
Flw.	p Seed pi	w w lented w nated	w 5 3 3 3 4 f f w 7 4 f 7 b 7 1 easil. ood. bi 5 eds clow w 8 w 8 w 8 w 8 w 8 w 8 w 8 w 8 w 8 w	d d M
Days to 1 Blm.	34 39 dged	ds in pairs. 19 7 m 57 w 7 f 7.2 l.5 5 87 l r Seeds large, round, light tan, dark hilum. 22 5 l 77 w h r 5.9 l.3 5 l08 m r eeds round but indented. Greenish tan but finely spotted brown. 23 8 m 57 w 6 f 6.0 l.3 7-8 87 s, m r entral suture, veinated, high ovule. Pods brittle, thresh easily.	suture, veinated, high ovule. Thresh easily. Excel d 46 p 3 f 6.8 1.4 7 80 s-m ype stucco. At first sight resembles mite injury. d 26 w 7 r 6.5 1.7 4 60 1 Poor set, poor yield, seeds attractive, full green. d 40 p 7 r 5.0 1.2 5 66 s pod. Shell easily, when dry pods dehisce & spiral, e of dry pod. m 57 pi 5 f 5.8 1.2 5 87 1 ed red, seeds cloudy tan, finely spotted brown. m 32 w 8 r 6.0 1.5 6 61 m Seeds medium size, wrinkled, grey-green. Balloon pc	70 p 6 56 p 3 113 p 4
De t	sily ric	, rc,	or stured, red, red, and red, red, red, red, red, red, red, red	Ħ
Leaves No.Col	ea.	ods in pairs. 19	suture d d A Poor d pod. re of c m sed rec m Seeds	ਰ ਜੋ
	8 hell	rou s 1a s 1a s 1a s 1a s	ral 6 ne t 5 ly. 7 all utur 8 8 inat inat 3 se.	0 00 -
Nodes	17 1, sh 23 stle.	ls i 19 3eed 22 22 seds 23	24 rentr 22 fin lor. 7 7 smal 14 14 21 21 21 su 21 cting	22 Jod Pod
· I	mal] brit	Dood See No.	very rantrantran	10 22 165 17 55 seeds/pod, 32 seeds/pod,
Plt. Ht.	120 13 sms 175 ed, br	rity. 150 170 170 sce. 160 ip or	160 160 170 170 28 28 28 85 1 dwer 170 ds, t	210 22 165 17 65 7 seeds/pod 82 8 seeds/pod
0.0 1-1:	9 120 1, pods si 7 175 einated,	Good yield, pods in pairs. t 8 150 19 7 m late maturity. Seeds large, r t 9 170 22 5 1 when dehisce. Seeds round but t 8 160 23 8 m green strip on ventral suture,	green stripe on ventral t 9 170 22 6 10co, 1/2 not very fine seed size and color. d 8 28 7 veinated, shell easily t-d 8 85 14 6. A tall dwarf, small stripe on ventral sutt t 8 170 21 t 8 170 22 6. Dry pods, tan, veine d 9 45 8 d 9 45	
Δ.	i small, t	Good een deen	eeen eed s ed s -d trij Dry	0 0
Haj	sma. t	t t t where t	gree t t t t t t t 37. t	t t t t t t t t t t t t t t t t t t t
nif.	8 Very 8	ilum 8 8 pod, 7 7 iral 6	rge, st 8 8 8 8 8 9 16-2 st 8 7 7 9 9 9 arir	Bods 8 8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
5	res res ra.	ck h	Ethio. 7 t Pods large, gre Ethio. 8 t Ethio. 8 t Ethio. 8 t Pods 1/2 stucco Variable in see USA 9 d Pods large, vei USA 6 t- Wilson T6-286. brown, green st USA 7 t Wilson W-737. USSR 9 d 'Everbearing'.	pod pod
Orig. Unif. Hab. Vig.	Austra. 8 i 9 120 17 8 1 34 p 8 r 4.5 1.3 4-5 66 s r dk gn Leaves very small, pods small, shell easily. Seeds dark green, black hilum. Seed coat finely spotted bl Austra. 8 t 7 175 23 7 1 39 pi 8 r 5.5 1.4 5-6 66 m r gn, t Pod wall thin, veinated, brittle. Pods ridged at ventral suture, shell very easily. Seeds greenish tan,	black hilum. Good yield, pods in pairs. Mex. 8 t 8 150 19 7 m Stucco pod, late maturity. Seeds large, Ethio. 7 t 9 170 22 5 1 Pods spiral when dehisce. Seeds round b Ugan. 6 t 8 160 23 8 m Pods large, green strip on ventral sutur	Ethio. 7 t 6 160 24 8 m 57 w 5 f 7.0 1.4 7 84 m r 1 tn Fods large, green stripe on ventral suture, veinated, high ovule. Thresh easily. Excellent yield. Fods large, green stripe on ventral suture, veinated, high ovule. Thresh easily. Excellent yield. Finds 8 t 9 170 22 6 4 46 p 3 f 6.8 1.4 7 80 s-m r gn reds 1/2 stucco, 1/2 not very fine type stucco. At first sight resembles mite injury. Pods poorly filled. Variable in seed size and color. USA 9 d 8 28 7 5 d 26 w 7 r 6.5 1.7 4 60 1 r gn Pods large, veinated, shell easily. Poor set, poor yield, seeds attractive, full green. Wilson T6-194. USA 6 t-d 8 85 14 7 d 40 p 7 r 5.0 1.2 5 66 s r b Wilson T6-206. A tall dwarf, small pod. Shell easily, when dry pods dehisce & spiral, seeds green spotted brown, green stripe on ventral suture of dry pod. USA 7 t 8 170 21 8 m 57 pi 5 f 5.8 1.2 5 87 1 r t Wilson W-737. Dry pods, tan, veinated red, seeds cloudy tan, finely spotted brown. USSR 9 d 9 45 8 3 m 32 w 8 r 6.0 1.5 6 61 m w 1 gn 'Everbearing'. Tall long-setting. Seeds medium size, wrinkled, grey-green. Balloon pod, shells very easi	343958 Tur. 8 t 9 Stucco pods. 343959 Tur. 5 t 5 343970 Tur. 8 t 9 Tan pod, stucco pod, 344009 Grc. 8 t 7 Tan pod, stucco pod,
	· •		35 36 278 322 359	<u> </u>
P. I.No.	314798	319374 331414 343824	343935 343936 G-18278 G-18298 G-18322 G-18559	343958 343959 343970 344009
[4]	(*) (*)	(*) (*)		01 (1) (1) (1)

	Virus			ය රා												න ටැ		٠.										
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ğ	Surf.		gn	gn			gu	gn		-	rkw t	> 8	/spa	60		50		lgs 1		ng:		20	60	gn	E D	gn	r&w gn	rev gn
Seed			н	ы			Z	H		H	2	4						gu		۶۰i		ы	24	۶۰	H	M	H	r
	SZ		E	Ħ		1	m-1	Н	ľ	T-II	,	1 8	pod, 5	to.		ш		Si		텀		日	日	ໜ		H		Н
Days to	Harv		149	149			og C	98	C	0	86	135	ncco	129		140	òd.	s poo		69		7	Q	77	87	101	101	101
Ovules Per	Poá						7	9	Ł	\cap	7-8	- 1	pod, stucco pod,				stucco pod	129 s seeds/pod.		7		6	٥	N,	9.	7	2	2
jize	Wth.		5 1.0	1.0		Small	1.4	1.7	6		7,5	7.7				1.0	pod, str	1.0 pod 4 s		1.0		1.3	T.2		1.5	1.6	1.5	1.6
Pod Size	Lgth.x Wth		6.5	6.5		axils.	6.3	7.8	0	0.0	8.1	5.0	habit.					3.4 tan		5.5		7.0	く・く	4.5	7.5	6.3	5.2	η· L
	Db1.		5			at	ы	٨	1	4	۶.,	ı	low				ate.	late										
	L. Set		d d	9		base and	4	7	C		cr) (*)	Very	_			ຜ	small,				d%w						
FIW.	Col.					at ba	ᅀ	(C4	1	3	3		se.	Q ₁	n.		~ 117	105 p		. ₩			ρ.	Q	M	A	M	*
Days	Blm.		118	118		both g	26	56	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	20	52	108	at base.	65	unknown			105 s ve		47		51	20	73	51	28	58	53
es			F or res				m ·	ರ		=	E						very	1 eave										
Leav	No.Col				7	nche	u ≥≎.†	ω	0	o	nse.)	anch	5	f po	5	are	g,										
	Nodes		>0	T 1	pod.	bra	21	19	L	7	nortense.		Inch branched		Color of pod	17	Leaves are very	Nild pea, leaves			ds.							
	No		+	3	sqs/	nuch							linc		Col		Lea	Wil			od c							
Plt.	Et.		105	72	7 sec	ery 1	175	180	0	700	sat. subsp.	30	m.	29		10		2 記 記			podded type, stucco pods.							
	7 <u>1</u> g.		8	9	, g	, V	۔ 0	subsp. nortense.			جالة ما	- 0	syriacum.	2	subsp. syriacum.	١	syrlacum.	7 t 4 70 subsp. syriacum.			S S							
	di.		+6	3	to po	abit			orte		ار سائد				Syl			Sy			type							
	· He	t.)	ئ م	1	tucc	ter	ب	.dsgi				, 4	subsp.	+	bsp.		subsp.	t bsp.			ded.							
	Unit	con	7	6	d, 8	edia	9				100d 100d	, m															η)	· hood
	P.I. No. Orig. Unif. Hab. Vig. Ht.	2nd planting (com't.)	It. 7 t 8 105 8	It.	Tan pod, stucco pod, 7 seeds/pod. It. 7 d-t 6 140	Intermediate habit, very much branched	Tur.	F. sat.	P. sat.	·Jnr	Tur. 5	Tur.	P. sat.	Tur.	P. sat.	Tur.	F. sat.	Tur. P. sat.	to the	Ind.	Edible	Tur.	Ecn10.	Tur.	Germ.	Iowa		Iowa
	io.	lanı			-														ן מפרנ									
	P.I.	2nd r	344537	344538	344539		343984	343985	01,000	04070	343990	343994		343996		343999		344004	3rd Plenting	166142		171310	19700	120617	200045	210613	210647	210649

Virus							
Seed Surf. Col.	r&w gn & t r gn & t	r gn, t r&w gn				w 1 gn	w gn
SZ.	H H	ほ の				r-1	Н
Days to Harv.	101	76				98	98
0	57	92	a.	7	_	9	5
Pod Size Per gth.x Wth. Pod	1.6	1.1	pariso	1.9	5.0	1.7	1.4
Pod Size Per Dbl. Lgth.x Wth. Pod	4.6	2.53	Standard Cultivars Included for Comparison	7.2	6.5	7.0	2.9
t Db1.			uded f	url	4	۶ı	Ħ
Set			Incl	∞	0	<u>-</u>	∞
Flw.	A W	≱ 24	ars	13	M	≽	×
Days to Blm.	53	99	ultiv	52	39	647	64
ves Col.			urd C	ರ	ರ	E	Ħ
Leaves No.Col			ande	14 9 3 d	6	ω	7
Nodes			रिं	17	17	16	17
Plt. Ht.				80	70	09	70
Vig.				9 1	30	8 %	3 4 ©
нар.				d.	d	d 8 60	g
Unif.		1		50 +0	6	9	6
P.I.No. Orig. Unif. Hab. Vig. Ht. Nodes No.Col.	Ind.	1970 Planting. 183910B Turk. 183910A Turk.		First Planting G-17408 N.Y. 9 d 9 80	Wando' N.Y. 9 d 9 70	Second Planting G-17408 N.Y. 9	Wando' N.Y. 9 a 8 40
No.	210649 175227B Ind.	10B		1408	1do,	7408	opu
P. I.	210649	19.7/ 1839 1839		Fire G-1	Wan	Sec.	.Wan

q	7	0
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p. 70																										1 D		d [ds
Col.		1-m gn	d gn, 1 t	gn, 1 t	gn, 1 t		gn, m t	d gn. m t		gn		t, 1-m gn	~25	ng p.	gn spl b		d gn spl b		gn spl b		gn	m=d on anl n	24	رب د		90	& + s₁	gn, d gn sj
ed rf.		Ä	₩ 1-d	H	Н		ш	s&w 1-d		-		-	£0 1	D-III	Ħ		m-d		日		ផ			Н		W m		ත ග
Seed		M	S &W	A			M			Ø		CO.	1	8 8 0	ß		Ω		Ω		M & S	Ę	•	Ŋ		1 S&W	•	X & X
SZ		Н	n-1	超	m-1		Ħ	m-1		Н		m-1	i	=	댎		S-m		ശ	ſ	T-W	٤	1	Н		SM	r	
Days to Harv		77	88	77	77		73	88		77		80	1	2	202		02		73	C	2	80)	83		80	C	22
Ovules Per Pod		<u></u>	2	9	5-6		4	80		9		9	L	n	4-5		4-5		2	1	_	7		4		2	(٥
ize Wth.		1.5	1.3	1.5	1.3	thread.	1.4	7.4		7.4	dries up.	1.3	r	P. C	1.1	suture.	1.0		0.0	(7.7	۲,	harvest	0.8		1.3	(T.3
Pod S Lgth.x		7.2	6.0	6.1	5.8	to a th	1.8	6.3	1	\sim	end dr	5.9	C	0.0	5.9	\vdash	4.3		5.5	stems.	0.0	5.0	before	3.5		5.5		0.0
Set Dbl.	sativum	8-9 f	φ 4	بر ص	5	dries	2 r	4		9 f	tail at	4-5 r		4 #a	6 r	on	r †	,		lender	H	105.	, dyi	2 r		ы Э		3-4 r
Flw.	Pisum	M	uniform	M	×	on pod	M	mites. W		W	axils,	W	1	ᆲ	ρ	ល	Q	ы	Д	, dn	TSC T	threfiloues.	to mites	M		W	Der	D&I
P.I.No. Orig. Unif. Hab. Vig. Ht. Nodes No.Col. Blm.	1970 planting - planted 3/6/70.	Ind. 7 d 8 52 15 7 d $\mu\gamma$	Very attractive, heavy yielding dwarf, very uni Ind. 7 t 5-7 70-110 21 4-5 d 60	Side branches come off at right angles.	on end of pod dries up to a thread.	plump smooth pods with square ends, tail	92	Small Leaves, slender stems, plant damaged by m Ind. 7 t 7-3 100 21 5 d 56	ovule number.	Ind. 8 t 9 135 20 5 d 45	attractive tall, long internodes, green	Ind. 6-7 t 6 125 22 4 m 54	doubling of pods.	718.	Ind. 4-5 t 6 100 17 4 d 43	might be ripe about 5/15, pods 2 brownish	Ind. 3-4 t 4 95 15 3-4 m 48	lender stems.	Ind. 7 d 7-8 67 9 3-4 m 47	l leaves, tail reduced to thread and dries	Ind. 1 5 51 (a 52 1 (a 52 1 (b) 52 1 (c) 5	Very carry excertency SOF, red axirs, rong income Trad 3 t 4 90 18 3 m 56	plants, slender stems, very susceptible	Ind. 5 t 3 60 15 2 m 60	One plant, very weak and mite infested.	Ind. 3 d-t 3-6 55-130 18 3 m 53	variable plants, two colors of flowe	Ind. (t 6-7 II) 20 4 d 57
P.I.No.	1970 pl	347277	347361	347377	347381		347407	347420		347421		347426	21,17,10	24/4/0	347449		347451	•	347465	21.71.07	24/40/	347491		347511		347512		341723

Pit. Leaves to Flw. Pod Size Per to Seed Pod Size Pod Size Per to Seed Pod Size Pod S								a las	b spl p	1				
Flw. Pod Size Per to to Col. Set Dbl. Lgth.x Wth. Pod Harv. Sz.		ಕಿದ್ದ	f. Col.	s 1-m gn		gn		m gn, m gn	m-d gn spl l	reen.	1 t spl p	m gn spl p	s gn spl p	1
Plt. Leaves to Flw. Pod Size Per to Col. Set Dbl. Legths. Wth. Pod Harv. Sz. G-20053 Ind. 3-4 d-t 4-6 58-110 15 3-4 m 42 8 w&p r 6.0 1.2 4-6 70 m One of earliest pods ripe 5/12, most plants have green axils, some have purple axils. G-20056 Ind. 6-7 d 6 70 15 3-4 m 43 p 6-7 r 5.8 1.1 4-5 70 m G-20057 Ind. 6-7 d 6 70 15 3-4 m 43 p 6-7 r 5.8 1.1 4-5 70 m G-20058 Ind. 6-7 d 6 70 15 3-4 m 43 p 6-7 r 5.8 1.1 4-5 70 s-m Pod has 2 purple streaks along ventral suture, pod has square end, tail dries up while st G-20061 Ind. 3-4 t 6-7 100 15 5-6 1 45 p&r 8 r 8.5 1.5 6-7 77 m-1 Constricted pods, early, edible pods, pale pod color, seems to be linked to yellow leaf of G-20062 Ind. 3 t 5-6 115 ultrants with long intermedes numble sails.		Se	Sur	W &		W&S		S&W	Ø	ill g	Was	olor.	W	
Pit. Leaves to Flw. Pod Size Per to Col. Blm. Col. Set Dbl. Lgth.x Wth. Pod Harv. G-20053 Ind. 3-4 d-t 4-6 58-110 15 3-4 m 42 8 w&p r 6.0 1.2 4-6 70 One of earliest pods ripe 5/12, most plants have green axils, some have purple axils, dark green leaves, 2 toned flowers. G-20056 Ind. 6-7 d 6 70 15 3-4 m 43 p 6-7 r 5.8 1.1 4-5 70 G-20057 Ind. 7 t 8 120 22 5-6 d 49 p&r 4 r 5.9 1.1 5 70 G-20056 Ind. 6-7 d 6 70 15 3-4 m 43 p 6-7 r 5.8 1.1 4-5 70 Pod has 2 purple streaks along ventral suture, pod has square end, tail dries up whi G-20062 Ind. 3-4 t 6-7 100 15 5-6 1 45 p&r 8 r 8.5 1.5 6-7 77 Constricted pods, early, edible pods, pale pod color, seems to be linked to yellow 1 yariable flower color, tall plants with long intermodes purple axils.								日	S-E	le st	m-1	eaf c	m-1	
Pit. Leaves to Flw. Pod Size Prino. Orig. Unif. Hab. Vig. Ht. Nodes No.Col. Blm. Col. Set Dbl. Lgth.x Wth. Pod G-20053 Ind. 3-4 d-t 4-6 58-110 15 3-4 m 42 8 w&p r 6.0 1.2 4-6 G-20056 Ind. 6 t 8 100 21 3-4 d 42 p&r 5-6 f 6.5 1.3 6 Very tall, purple axils, dark green leaves, 2 toned flowers. G-20057 Ind. 7 t 8 120 22 5-6 d 49 p&r 4 r 5.9 1.1 5 G-20056 Ind. 6-7 d 6 70 15 3-4 m 43 p 6-7 r 5.8 1.1 4-5 Pod has 2 purple streaks along ventral suture, pod has square end, tail dries of the color fall plants with long intermodes purple streaks language with long intermodes purple streaks.	Days	to	Harv.	70	axils	70		70	10	up whi	77	110W 1	80	
Pit. Leaves to Flw. Pod Size C-20053 Ind. 3-4 d-t 4-6 58-110 15 3-4 m 42 8 w&p r 6.0 1.2 G-20056 Ind. 6 t 8 100 21 3-4 d 42 p&r 5-6 f 6.5 1.3 G-20057 Ind. 6-7 d 6 70 15 3-4 m 43 p 6-7 r 5.8 1.1 G-20056 Ind. 6-7 d 6 70 15 3-4 m 43 p 6-7 r 5.8 1.1 G-20056 Ind. 6-7 d 6 70 15 3-4 m 43 p 6-7 r 5.8 1.1 G-20057 Ind. 6-7 d 6 70 15 5-6 d 49 p&r 4 r 5.9 1.1 G-20056 Ind. 3-4 t 6-7 100 15 5-6 1 45 p&r 8 r 8.5 1.5 Constricted pods, early, edible pods, pale pod color, seems to be linked Variable flower color tall plants with long intermodes mumble svils	Ovules	Per	Pod	9-4	purple	9		5	4-5	dries 1	2-9	to ye	9	
Pit. Leaves to Flw. Pod S Q-20053 Ind. 3-4 d-t 4-6 58-110 15 3-4 m 42 8 w&p r 6.0 One of earliest pods ripe 5/12, most plants have green axils, some g-20056 Ind. G-20057 Ind. G-20057 Ind. G-20057 Ind. G-20056 Ind. G-20061 Ind. G-20061 Ind. G-20062 Ind. G-20063 Ind. G-20063 Ind. G-20064 Ind. G-20065 Ind. G-20064 Ind. G-		ize	Wth.	1.2	have	1.3		1.1	1.1	tail	1.5	linked	1.3	xils.
Plt. Leaves to Flw. P.I.No. Orig. Unif. Hab. Vig. Ht. Nodes No.Col. Blm. Col. Set Dbl. G-20053 Ind. 3-4 d-t 4-6 58-110 15 3-4 m 42 8 w&p r One of earliest pods ripe 5/12, most plants have green axils G-20056 Ind. 6 t 8 100 21 3-4 d 42 p&r 5-6 f Very tall, purple axils, dark green leaves, 2 toned flowers G-20057 Ind. 7 t 8 120 22 5-6 d 49 p&r 4 r G-20056 Ind. 6-7 d 6 70 15 3-4 m 43 p 6-7 r Pod has 2 purple streaks along ventral suture, pod has squal G-20061 Ind. 3-4 t 6-7 100 15 5-6 1 45 p&r 8 r Constricted pods, early, edible pods, pale pod color, seems G-20062 Ind. 3 t 5-6 115 20 4 d 55 p&r 3-4 r Variable flower color tall plants with long internodes recover.		Pod S	Lgth.x	0.9	s, some	6.5		5.9	5.8	re end,	8.5	to be	6.0	urple a
Pit. Leaves to Flw. P.I.No. Orig. Unif. Hab. Vig. Ht. Nodes No.Col. Blm. Col. Sc. G-20053 Ind. 3-4 d-t 4-6 58-110 15 3-4 m 42 8 G-20056 Ind. 6 t 8 100 21 3-4 d 42 p&r Very tall, purple axils, dark green leaves, 2 toned 3 t 6-7 d 6 70 15 3-4 m 43 p G-20056 Ind. 6-7 d 6 70 15 3-4 m 43 p Pod has 2 purple streaks along ventral suture, pod has 2 purple streaks along ventral suture, pod has 3-4 t 6-7 100 15 5-6 1 45 p&r Constricted pods, early, edible pods, pale pod color days in term.			et Dbl.	w&p r	en axils	5-6 f	flowers	4 r	6-7 r	as squa	8 4	, seems	3-4 r	odes, pu
P.I.No. Orig. Unif. Hab. Vig. Ht. Nodes No.Col. Blm. G-20053 Ind. 3-4 d-t 4-6 58-110 15 3-4 m 42 One of earliest pods ripe 5/12, most plants he color rall, purple axils, dark green leaves, 2 d-20057 Ind. 7 t 8 120 22 5-6 d 49 d-20058 Ind. 6-7 d 6 70 15 3-4 m 43 Pod has 2 purple streaks along ventral suture G-20061 Ind. 3-4 t 6-7 100 15 5-6 1 45 constricted pods, early, edible pods, pale pod Uariable flower color tall plants with long Variable flower color tall plants with long		Flw.	Col. S.	∞	ave gre	pår	toned	p&r			p&r	color	p&r	intern
P.I.No. Orig. Unif. Hab. Vig. Ht. Nodes No.Col. G-20053 Ind. 3-4 d-t 4-6 58-110 15 3-4 m One of earliest pods ripe 5/12, most plan G-20056 Ind. 6 t 8 100 21 3-4 d Very tall, purple axils, dark green leav G-20057 Ind. 7 t 8 120 22 5-6 d G-20056 Ind. 6-7 d 6 70 15 3-4 m Pod has 2 purple streaks along ventral s G-20061 Ind. 3-4 t 6-7 100 15 5-6 1 Constricted pods, early, edible pods, pa G-20062 Ind. 3 t 5-6 115 20 4 d Variable flower color tall plants with	Days	to	Blm.	742	nts ha	75	es, 2	64	43	uture	45	le pod	55	long
P.I.No. Orig. Unif. Hab. Vig. Ht. Nodes M G-20053 Ind. 3-4 d-t 4-6 58-110 15 3 One of earliest pods ripe 5/12, mc G-20056 Ind. 6 t 8 100 21 3 Very tall, purple axils, dark gree G-20057 Ind. 7 t 8 120 22 5 G-20056 Ind. 6-7 d 6 70 15 3 Pod has 2 purple streaks along ver G-20061 Ind. 3-4 t 6-7 100 15 5 Constricted pods, early, edible po		eaves	10. Col.	m 7-9	st pla	3-4 d	en leav	p 9-9	3-4 m	tral s	1 9-9	ds, pa	ل ا	s with
P.I.No. Orig. Unif. Hab. Vig. Ht. Ig-20053 Ind. 3-4 d-t 4-6 58-11 One of earliest pods ripe 5 G-20056 Ind. 6-7 d 6 70 G-20056 Ind. 6-7 d 6 70 Pod has 2 purple streaks algebraiched pods, early, ed G-20062 Ind. 3-4 t 6-7 100 Constricted pods, early, ed G-20062 Ind. 3 t 5-6 115		I(!	Nodes N	0 15 3	/12, mc	21 3	rk gree	22	15	ong ver	15 5	ible po	20 7	plant
P.I.Mo. Orig. Unif. Hab. Vig. G-20053 Ind. 3-4 d-t 4-6 One of earliest pods 1 G-20056 Ind. 6 t 8 G-20057 Ind. 7 t 8 G-20056 Ind. 6-7 d 6 Pod has 2 purple stread-pods 1 ind. 3-4 t 6-7 Constricted pods, earlied Variable flower color		Plt.	Ht.	58-11	ripe 5	100	ls, da	120	20	aks al	100	ly, ed	115	, tall
P.I.Wo. Orig. Unif. Hab. G-20053 Ind. 3-4 d-t One of earliest J G-20056 Ind. 6-7 d G-20057 Ind. 7 t G-20056 Ind. 6-7 d G-20061 Ind. 3-4 t G-20061 Ind. 3-4 t Constricted pods G-20062 Ind. 3 t			Vig.	9-4	pods 1	ω	e axi.	ω	9	stre	6-7	, ear.	2-6	color
P.I.No. Orig. Unif. G-20053 Ind. 3-4 One of earl G-20056 Ind. 6 Very tall, G-20057 Ind. 7 G-20057 Ind. 7 G-20056 Ind. 6-7 Pod has 2 p G-20061 Ind. 3-4 Constricted G-20062 Ind. 3			Hab.	d-t	iest 1	د	purple	t	で	urple	t)	pods	t)	ower
P.I.No. Orig. G-20053 Ind. G-20056 Ind. Very G-20057 Ind. G-20058 Ind. G-20061 Ind. Consti			Unif.	3-4	f earl	9	tall,	<u></u>	2-9	as 2 p	3-4	ricted	m	ole fl
P.I.No. G-20053 G-20056 G-20057 G-20061 G-20062			Orig.	Ind.	One o	Ind.	Very	Ind.	Ind.	Pod ha	Ind.	Const	Ind.	Varia
		•	P.I.No.	G-20053		G-20056		G-20057	G-20058		G-20061		G-20062	

d gn spl b 1 gn, 1 t P. sat. ssp. elatius. Planted 11/3/69, 10 seeds, very much branched & vining, very attractive to mites, small leaves, fine stems, slender pod & slightly curved, stucco pods or neo-plastic.

183910B Tur. 7 t 9 125 26 6-7 m 66 w 6 r 6.4 1.3 5-6 97 m-1 s 1 gn, 1 t Planted 9 seeds 1/29/70, stucco pods. S-II 0.9 3 r 7.0 9 190 24 Italy 344539

PISUM SATIVUM

1970 Descriptions and Evaluations

Seeded in field 4/16, 128 seeds/accession. Spacing $4' \times 11/2" + 4'$. Notes taken 6/23-25/70. Fertilizer 640 lb. 10-20-20/A. Seeds treated with Arasan 75.

1=very variable	,	l=poor	s			1=light			l=few or poor	i				1=large		t=tan	m-medium		0=least
5=medium	d=dwarf	5=medium		first flower.		m=medium	o first bloom.	p=purple	5-medium	r=rare		per pod.	to Harvest - number of days to harvest or ripe pods.	m=medium	w=wrinkled	20 Seed Color gn=green p=purple	1=light	spl=splash	5=medium
9=most	f=tall	9=very	centimeters.	between base and	ů.	d=dark	number of days t	w=white	9=excellent	f=frequent	n centimeters	- number of seeds	- number of days	s=small	s=smooth	gn=green	b=brown	d=dark	9=most
Uniformity	Habit	Vigor	Plant height in	Nodes - number	Number of leave	Color of leaves	Days to Bloom -	Flower Color	Set of seeds	Doubling	& 15 Pod size in	Ovules Per Pod	Days to Harvest	Seed size	Seed Surface	Seed Color			Virus general
m	#	2	9	_	ω	0	10	11	12	13	17	16	17	18	13	20			21
Col.																			Col.

p. 74	0-5	0	10	0	0-1	ħ-0	0-3		7-0	0.40		0		t 0		N	(2-0	0-1	c	ν-ο α
(C)	r. '		t, m gn	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ಾ್ರಿಕ ರಿಜ್ಞಾ	Eds us m	24 23 23 24 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 5 5 T	Spl p		ध्या ह्या प्र	d Ids	1-d gn, d	splb & p	1-d gn, t	व क जन ह्वंड	n Gn	1-m gn		1-d t spl
5999 5317 5317	ťΩ	Ω.	w	M	(g	ល	≥		×	ഗ	X	ഗ	bods.	യ	ggly,	w		ល	ಬ	1	≥
S. 7. 6	Ę, 	nd N	m	r Ei	다 됨	S-m	thick		日	S		Ω.		Ø	straggly	Н	f		n	•	Les.
De la constant de la	S	S	102	6	9,	88	pod is 1		95	102		88	slender	95	very	84	(66	95	001	o 102 1 large ovules
Ovules I	<u> </u>	∞	_	9	ω	9	pods, pod		8	pod constriction. 6.0 1.2 6	ls.	<u>-</u>	n vines,	Φ	leaves,	9	l	_	ω	α	
Size n.x Wth.	1.4	7.5	1.5	1.3	1.7	1.0	stucco I		ω ~	constri 1.2	sco pod	0.0	y thir	1.0	small	1.2	. c.	1.9	1.8	α	n ster
Pod Si Lgth.x	5.7	7.0	7.1	5.8	8.5	5.4	pods, st 9.5		0.0		ne stud	7.0	or, ve	7.0	, very small	5.5	-plasti	0.5	0°8	<u>u</u>	eaks c
Set Dbl.	sativum 6 f	/0/9	6 f	7 f	p 7 f large ovules	r †	small 5 f	e ovules.	7 £	flat pods, 5 r	set 6/23/70, some stucco pods		poor vigor, very thin vines	3 f	foliated,	89	14	A CO	s Podes 8	Ģ	p o 1 9.2 1.0 leaves, red streaks on stems,
F1W.	Pisum	ILOWers	M	ρ) p and lan	Д	6/23/70 , 50 p	, large	ρ	pea,	et 6/2	ρι	leaves,	ρι	rsely	d-w	(L)	W.	A TECT OURS	Ş	p leaves
Days Elm.	\sim		09	55	0	55	09 9 spc	pods,	55	odded 53		W		79	nd spa	1 54	stems,			9	
Leaves No.Col.	# C	7 m	m	7 m	7 m 6 large pods	5 d	few po	, flat	8	ible por T	nt, lit	7 7	ed, sma	4 1	igor ar	8 m-d	thin s	y d	7 d	· α	o m hardy,
Nodes I	18	0/23/10, pods are quite 11at, several 8 t 8 120 16 7 m 6	16	15	16 tion,	∞	Variable plant size, small plants, few pods Tur. 6 t 7 100 16 6 m	Few pods 6/23/70, pod constriction, flat pods,	16	Very vigorous, good, early set; edible podded pea, flat Tur. 7 d 7 75 13 7 m 53 w-p 5	Wh. & pr. flowers, white predominant, little	6	Two plants in row, sparsely foliated, small Verv little set 6/23/70.	12	in row, all plants poor vigor and sparsely	12	Small bushy plants, good set, very thin stems,	السوم	Pous, very reary, very T d 5.	Pods broad and flat, quite vigorous.	Poa constriction, plents look very hardy, big
. 1	100	120	95	110	Tur. 8 d 8 80 16 No set 6/23/70, pod constriction,	75	100 100	constr	8 100 16	arly s	te pre	75 9	rsely	10	lants	100	od set	TOOT	100	ite vi	s look
Vie	φ :	ಪ ಬ್ರಾಂ ಬ್ರಾಂ	ω	ω	8 od c o	5	ze, si	pod	ω	od, e	, whi	7	, spa.	5	all p	6	8 g	7 20	ν ω ω ω ω	at, qu	plent
Hab.	d.	ر د د ب	70.) t	d d 70, p	q	nt si t	3/70,	4	s, go	owers	t,	n row	4	row,	で	plant	ם את	r r r	id fla	o. cion,
Unif.	8	0/23/	6/23/70. 8 d		6/23/	77	le pla	ds 6/2	ಐ	igorou 7	pr. fl	9	ants i ittle	5	ts in	ω	yushy	0 124	, C.	oad ar	strict
Orig.	Visc.	No set Ugan.	No set Ethio.	Ethio.	Tur. No set	Tur.	Variab. Tur.	dew po	Tur.	Very v.	Vh. & 1	l'ur.	Two plants in row, sparse] Very little set 6/23/70.	Tur.	7 plants	Tur.	mall l	Tur.	Tur.	Pods br	00 co
P.I. Wo. Orig. Unif. Hab. Vig. Ht.	210590 Wisc.	243824 [343935 E	343936 I	343957	343958 1	343959		343960 7	343961 Tur.		343962 1		343964 1	}	343965 1		1 00X040	343967 T	म् ज्ञास्तित्व	

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Pea con't.								ξΩ.					Over	f + 6	,				
P. I. No.	P.I.No. Orig. Unif. Hab. Vig. Ht.	Hab.	Vig.	Ht.	Nodes No.Col. Blm.	No.Col	es ol. B		FIW.	Set Dbl	Pod Si	Size n.x Wth	Per Pod						5
343969	Tur. 8	ರ	ω [50	ω (ω.	rd '	55			7.7			ω			(3	2.* 	0
343970	Few plants have purple flowers, flat pods, Tur. 6 α 55 8 5 1	nave p c	urple 6	TTOW 55	ers, r	Lat p	ods,	plants 64 p	s quite p 2		shy,	5	vigorous. 1.2		ο\ Ο\		ĿΩ		67-5
	Some stucco pods, six plants in row, spars very small seeds, no set 6/23/70.	stucco pods, six plants in r small seeds, no set 6/23/70.	, six	plan set 6	ts in /23/70	row,		ely f	foliated	6	poor vigor		rple	streams	10	4			
347270	India 7	، د	7	2	6	7 m		. 95	W	6 f	8.0	1.4	6	6)5 E	F7.			0
347271	Very little set 6/23/70. India 6 d 7 65	e set	6/23/° 7	70. 65	7	7 m		09	×	F Q	7.5	5 1.5		9	m 66		ψ.	1	اسم د د
	Variable plant size, some plants in row dead	lant s	ize,	some	plants	in r	ow de	m	no set	6/23	/70.							,	
347272	India 7	ರ	7	9	ω	<u>-</u>			W	5 f	8.2	2 1.3			95 m	m-7	ču.		6.3
	Good set for few plants, about 1/2 of row	or few	plan.	ES, a	bout 1	1/2 of		4	plants	dead,	very	little	set 6,	23/70	plants		drine		
347273	India 7	ත .	<u></u>	09	H	Ф Ф		55	A	5	7.	7 1.3		80	66	m-1	Ω.		0
347274	Very little set 6/23/70. India 6 d 7 60	e set	6/23/' 7	09	α	9		26	4	נר	777	7 6 7		201	5		ប		0.0
	Variable p	lant s	ize,	some.	plants	dead	า นะ		2								2		1
347275	India 6 t 7 100 9 5 md 6-3	42		100	6	5 md	nd	6-3	M	£ 9	, 10	2	~	8 102		m-1	Ŋ	1 gn	Н 6
	Some plants dead, viney plants, fairly sparsely	s dead	, vine	ey pl	ants,	fairl	y sna	rsely	foli	foliated	big pods	ods.)	
347276	India 7	Ö	7	7 55	13	7 d	ਯੂ	55	W	5	7	5 1.4	·	7 103	3 m		ത	1 & d t	4
21.7070	CC.	/23/70	((-	c		1							(1 & d @n	
24 (< 1 0	undia y	t (100)) (C	150	↑	α	目	22	W	6 F	1.9	1.2		9	88		co.	ا	0
347279	Little set 5/23/70, large ovules. India 7 t 8 135 15	6/23/ t	1 0 0	arge 135	ovules 15	80.		. 26	A	z 2-9	4.6	1.9		8 103	3.1		co.	c+	0
	Quite vigorous, little set	rous,	littl	set	6/23/	6/23/70, some n		eo-plast	astic	spod:	, ve	large	pods.					m gn	
347280	India, 6	4	Φ	8 120		u 2		53	W	8 F	7	1.6		5	m 66		Ø	1 t, c gn	02
347281	Very vigorous, good set. India 8 d S 80	ous, g	000 000 00	et. 80	10	00		56	žī.	9	7.1	2.		201	7		Ũ		C.
21,7000	Very vigorous, very leafy, little set 6/23	ous, v	ery 1	eafy,	littl	e set	6/23	/70.			-							m gn spi br)
341505	Some rient	ر م م	- :	TOS,	1.4 2.	ρ. 1		000	×	J 0	0.7	1.5		الا الا	3 四~		Ø		0
347283	India 7 d 6 95 15 6 m	o dead	, ver.) Lea. 95	13, 40 15	ser o/	0/25/	ر ا ا	A	4	5,6	7 -		201	2		U	1-m gn	C
	Little set 6/23/70, short distance between	6/23/	70, sl	nort	distan	ce ber		nodes	s, but	9	41	, H	very]	eafy			2)
347284	India 5	، ب	5-7	100	14	58	m-d	55	W 5	9	f 6.0	1.5	9	103		m-1	S	1-m t, 1 gn	0-1
347285	One plant dead; very little set $6/23/10$. India 6 t 5-8 115 12 5-8	dead; t	very 11tt. 5-8 115	11tt <u>I</u> (set 30	6/23/ 5-8	5				É		1	: ?		7 74 74 7			(
	No set 6/23/70, some plants sparsely folia	3/70,	some 1	lant	s spar	sely	m folia	ted.	<i>></i>	<u> </u>	0	† · †		FOT .			, l	k d gn	p.

Pea con't.

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; ; ;			77. 747		2	12	20	Ü	3	m-1		m-1		S-m		m1	1	m-1		m-1		m-1	1	m-1		S-m		S-m		m-1	,	II
		5\	ို				66	00	1	66		66		66		66	1	102		102		102	4	102		102		102		95	(102
Overland For	T	ω	7	,	· · ·	, stucco	5	۷)	ines. 6		9		9		2	,	9	(Φ		_	,	٥		<u></u>		9		ω	1	_
Size		1.5	1.6		H.3	plants	1.2	0		long vi	gorous.	7.7		1.4		1.1	1	1.5		7.7		1.5	Ĭ	H.2		1.2		7.4		1.2		m
Pod	1	0.9	7.0	,	0.9	average	5.1	7 7		but 6.5	es, vi	r 6.4 1.4	6/23.	6.3		4.7	,	9.9		7.0		7.0		0.0		5.5		5.2		6.5	1	6.7
בקר	1	ы	۶ı				٤١	7 2	4 ⁷	between nodes,	vin	٤		ы		<u>د</u> د د		r C		4-1	,	H	,	H		7		۲		4-1	(ù- i
0	מון מון	9	_	φ. Ω	7 9d	plar	9		`	een r	long	2	little	0,	/23.	7-17		2-6	`	9		2-6	1	2-0		0-7		9		0	ŧ	<u>. </u>
Flw.		M	¥	plants		oue '	M	T. 2.			, but	W		M	set 6/	W&p	,	W&p		M		M		M		W&p	5/23.	W		M		×
Days to	Dist	9	9	ight i	22	Wers	09	بر	1	ance 56	nodes, but	9	leafy;			55	!	52	6/23	53	,	09	1	20	nes.	57	set (26		09	(09
res		日,	. H	upri	m I	e flo	m d	0/53 E		dist	een n		very	Ħ	, lit	Ħ	shy.	田田	set	Ħ		Ħ		2-7 m	iv ga	Ħ	little	目		m		目
Leaves		7	ω Θ	ons,	<u>-</u>	urple		အ က က	,	hort 7	betwe	8	ize.	日 6	rous	_	inq :	_	ou ,	Φ		_		5-1	t 101	∞	, lit	<u>-</u>		Φ		
	TA COUCE	12	1815 Vigorous. 95 13 8 m	very vigorous, upr	13	very few purple flowers,	13	Variable plant size, very little set $0/2$	1	One plant with purple flowers; short distance India 8 d 8 90 10 7 m 56	Little set 6/23; short distance between	16	One plant dead, variable plant size; very	12	e vigo	India 8 t 7 110 13 7 m 55	One plant has few purple flowers; bushy.	14	One plant has few purple flowers, no set	15	,	16		15	Short distance between nodes, but long vines.	India 8 t 8 100 12	lowers	14	One plant dead, little set 6/23.	17		17
Plt.	1	105	1 alr 95	very	100	very	105	ze, very litt	1 :	flow 90	dis	6-8 110 16	ole p	8 115 12	quit	110	ole f	110	ole f	105	•	7 115		115	pou 1	100	le f	105	set	100	6	110
ν, α	CT A	<u>-</u>	200	set 6/23;	India 7 t 7 100	/23,	6-8	ze, z	- '	rple 8	short	6-8	arial	တ	afy,	_	Imd .		puri	India 8 t 8 1	orone	<u>-</u>			tweer	Φ	puri	_	ittle	_	l	_
بر 0 7	OFIE. UILL. Hab. VIE.	t 7	ر د د	set 6	` د	set c	ب د	ant S12 A	,	th pu	/23;	دب	ad, v	دد	nd le	د	s few	ىد	s few	، دړ	, Vig	ِ دـ	/23.	دہ	se pe	t,	3 few	t)	ad, 1	ر ا	/23.	t)
¢.		7	α α	tle	<u></u> :	tle	9	pta 7		S Wi	et 6	9	t de	00	hy a	∞	t ha	_	it ha	ω ,	eafy	∞ `	Little set 6/23.	9	stan	∞	t has		t dea	ω `	Little set 6/23.	2
<u>}</u>	5	India 7	ia.	Very little	ರ	y lit	ਲ ਂ	lable i	3 '	plar ia	tle s	India 6	plar	ದ	y bus	ದ	plar	ರ	plar	ದ	Jy, 1	r o	tle s	ದ	rt di	r T	plan	ಥ	plan	ल	Te s	ಡ
		India	Very 1	Very	Ind:	Ver	Ind	Variab	1111	One Ind:	Lit	Ind	One	India	Ver	Ind	One	Ind.	One	Ind:	Busi	India	Lit	India	Shoi	Indi	One	India	One	India	Litt	India
	F. L. INO.	347286	347287		347288		347289	2),7200	0/11/0	347291		347292		347293		347294		347295	`	347296		347297		347298		347299		347300		347301		347302

		ω!											دد																				p		77
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ć	5 "	1 .1																																	
	Size	x Wth			1.5	<u>ا</u>		1.2		1.6		1.6		1.2		H. 3		7.4		1.4		1.5		1.0		1.4		1.2		1.4		1.0		7.5	
	Pod	Leth.x	6.0		9.9	6.5		5.9		9.9		7.0		6.5		6.3		5.2		6.7		6.9		5.5	7.	4.0		6.3		6.0		ω· 1		7:7	
		Db1.	٤			4		ы		4		ы		4-1		ب		N		H		q ₋₁		بع	t 6/24	4-1		£,		9-1		С —І		H	
		Set	6		9	2-0		2-6		Ó		56		<u></u>		6-7		9	pods.	1-9		ب		9	e set	9		5.6		2		2	,	9	
	Flw.	Col.	TA&P		M	W		W&p		M		12		M		M		W		Įi,		W&D	6/24.	W&D	little	W	124.	W		M		M		M	
Dose	to	Blm.	55		09	52		53		.53		62	plants, little set 6/24.	09				99	e stucco	55		09	set 6	52			set 6/	55		00		09		52	
·		1	Ħ		日日	덛		c		日		m	set	ct	et 6	Ħ		日	Som	ជ		Ħ	Le	ជ	Flow	51	le s	Di	6/24.	Ti.		ma		С	
	Leaves	No.Col	m 1-9		78 m	7 m		7 m		7-8 m		7	Te is	∞	e se	20		6-18 m	6/24; some	7 m		7-8 m	little	ш <u>9</u>	le :	T II	little	ω ω	set 6			9		U	
				rs.					rs.				litt		itt]								rs,		ind		7								
		Nodes	14	One plant has few purple flowers.	10	12		12	One plant has few purple flowers.	0		77	ts,	14	leafy, very little set 6,	16		0	e set	16		72	One plant has few purple flowers,	10	One plant dead one plant has purple flowers,	14:	fairly leafy,	15	leafy, little	74		01			
	Plt.	Ht.	100	le f	85	85		100	10 f	001 100		100	plar	7-9 115	, Ve	100	ons.	105	itt]	130		96	le f	75	ant	32	rly	100	2	2		85	(0	
			<u></u>	Durp	<u></u>			001 1-9	dind	201	24.		of	6-1	afy	∞	igor	5-7 105	0	6-7 130		7	dinc	7 : 75	10d e			တ	leaf	7		7		_	
		5		ew I					() ()		9/9	4 ·	rom		26.	~	A	<u> </u>	Size	10			ew]		one		ts,						9		•
		Hab	دب	as L	d	ਰ (6/24.	د	as f	42	Very little set 6/24.	ىد	Only half of a row of	دډ	Quite vigorous &	د	Little set 6/24; vigorous.	ىد	Variable plant size, little	42	Little set 6/24.	Ö	S. S.	Ö	eac	ರ	Some erect plants,	4	Very vigorous and	D	42/9	ਾਰ	6/24	a /2/2	47/0
		nif.	9	nt h	-	∞	, 3	9	ot h	2	tle	S	lf o	S	igor	∞	set	9	Id a	_	set	0	nt h	9	nt d	9	act	_	goro	<u></u>	set	<u>-</u>	set		set
		1	ದೆ	plar	ಹ			ಣೆ	plan	ದ	111	ಥ	ha	ಹ	e v	ದೆ	ie :	a 3	able	ಣ	Je .	ಡ	pla	ಣ	pla	ದ	er	টে	Vi.	d	le		(1)	(
ئے		Orig. Unif. Hab. Vig.	India	One	India	India	Little	India	One	India	Very	India.	Only	India	Quit	India	Litt	India	Vari	India	Litt	India	One	India	One	India	Some	India	Very	India	Little	India	Little -	India	חח דוד
con't.		P.I.No.	303		304	305		306		307		308		300		310		311		312		313		314		347315		347316		317		318	(310	
Реа		P.I	347303		347304	347305		347306		347307		347308		347309		347310		347311		347312		347313		347314		347		347		347317		347318	1	347319	

p.	78	Virus	0-1		02		4.0		m		กา		1.4		0		0		0		0		0		0,0		0 .3		0		0.2		0	
		Vi			Ó				gn 0-)	d 0		~				u.o						un un		gn O)	En.	ρ	gn.					ر ا
	1	انا	t, 1m		d. t.,	å En	1 gn		m-d		t, m.d		gn		di.)	t,	,	T E)	1-d gn)	1-0		D III		1.d	spl	m-d		l gn			of row
		Col	디	gn	ಷ	ري ا	٦ د		ب د		1-m t,	n N	ئر (ئر ئ		1, 13		ب رب	•	رب اسا	•	اب ب		ب نب نب		ب ب	व लग	رب ،	`	رم دوع		د	end o
	Seed	Surf.	1/2		Ø	د	Ø		w		ß		w		ល		ເນ		ຜ		Ŋ		Ø		Ø		S		w		W		ហ	at
	W	Sz.	Ħ		sm	erect	E Si		T. m.		m-1		m		m-1		m.1		S-m		S		m-1		3-1		m-1		H		T-H		S-m	ssin
Davs	to	Harv.	102		103 8	quite	95		74		103 r		700		103 r		103 7		105		95		105 r		105		105		105 1		105 1		1.03	some plants missing
		1	-								٦		O				_				0		L-e-		7		~							plant
Ovules	Per	Pod	<u></u>		00	plants	9		7		2		9		2		5		9		9		S		U.\		_		9		9		9	onse
	Size	wth.	1.5		744	: 6/24	7.4		H.		1.3		1.3		1.5		J.3		1.0		1.5	ovules.	1.5		1.5		1.2		1.2		1.5	rines.		
	Pod S	Lgth.x	6.8		6.5	little set	0.9		6.8		6.5		6.1		6.8		0.0		8.4		6.5		6.8		0.0		0.9		6.1		6.9	long vines.	1.0	but long vines,
		Db1.	4-1	_:	4-1	lit.	H		9-4		Ç-1		6 f		4-1	•	Ç⊷ş		G 1	•	G-4	size	4-1		¢ı		4-1		بيه		4	, but	4	but
		Set	26	6/24.	5	size	7	ng.	5	size.	5-6		5		5.6	snots.	1		2	pods.	5		9		5		67		5.6		5-6	odes,	0	des
	Fly.	Col.	*	set	M	plant	M	not long	W	plant			M		W	red	M		P.3	small	M	olent	M		M		W&D	6/24.	I's		M	internodes,	≯	internodes,
Davs	t0	Blm.	62	little	62		64 1		9		CV		57		99	have	15		56		55	iable	3		56	OW.	99		25		99		9	
	ves		m		댇	Several plants dead at end of row, variable	E	but vines are	E	little set 6/24, variable	E		Ħ		Ħ	some pods ha	司		ш	6/24, half of plants in row dead	a	6/24, varia	S m		Ħ	dead in row	Ħ	little set	Ħ		耳	fairly erect plants, short	m	consistent length between
	Leaves	Ho.	7 m	plan	1 m	W, V	7 m	it vi	E S	ν + 42	-		7		∞	ome	1 L		7 m	in r	<u></u>	6/24	ထ		7 m	dead	8	lit.	7 m		<u></u>	ants.	_	th O
		Nodes No. Col.	15	some erect plants,	15	of re	H	s, bu	14	t 6/2	13	es.	17		15	es,	13		9	ants	12	set	17		14	ants	17	purple flowers,	79		12	ct pl	18	leng
	Plt.	Ift.	105	ome e	85	end	80	rnode	8	le se	75	ovul	06		90	ovul	် လ		80	of pl	85	ttle	120		100	of pl	120	flo	ස ද		125	rere	110	tent
	14	13.	ω	e, 3(<u>-</u>	id at	<u>-</u>	6/24, long internodes, l	9	litt		large ovules.	_			large ovules,	_		<u>-</u>	alf (57	plants dead, little	 သ		<u>-</u>	half of plants	∞	urple	<u></u>		ω	airly	Π (2)	onsis
		ab. V		Variable plant size,	ತ	s dea	دد	long	d d			6/24, 1	4	6/24.		6/24, 1		6/24.	で	24, B	73	s dea	دد	6/54.					ರ					
		出出	6 t	plan		lant		,24,		Some plants dead,		set 6/						t 6/2		set 6/		lant	~	set 6/		little set 6/24,		One plant in row		t 6/24.		t 6/54		t 6/2 les.
		Uni		able	ري. دري	ral p	8			plan	3, 6		9 0	02	Q/ B	le set		le set	a S						3	le se	8	plant	9	le set	7	le set	2	Le set o
on't.)		. Orig. Unif. Hab. Vig.	India	Vari	India	Seve	Incia	No set	India	Some	India,	Little	Incia	Little	India	Little	India	Little	India	Little	India	Several	India	Little	India	litt.	India	One 1	India	Little	India	Little	India	Little set 6/24, large ovules.
Pea (con't.)		P. I. No.	347320		347321		347322		347323		347324		347325		347326		347327		347328		347329		347330		347331		347332		347333		347334		347335	

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		Virus	0	0		0	C		0		0-5		0		0		0		0		0		0-5		0-5	~	j	0		0	plants.	5	
	-	-,	. p %			an a	140		150				III.		i gn		En Sn		gn		1 gn		už I		i en	uo.		gn		l gn	erect	L. a gn	
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Days	to	Harv.	103	102		104	101	rs.	104		104		102		105		107		103	6.	104		104		104	0.5	\	104		104	distance	22	
Ovules		Poa	-	5		7	۷	flowers.	9		_		N		2		9			set 7/	_		الله 		_	7		co		<u></u>	in	was.	
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		× × tu	I. h	H . H		1.6	ا د				4.4		7.7		1.1		1.3		1.0	little	1.4		1.1	•	7.4		1	J. C	ect.	1.4	consistent	T	
	Pod Size	Lgtil.x	1.0	5.6		1.0	6.7	ts has	6.7		7.2		2.0	24.	5.1		5.8		5.9	thick,	7.0		6.1		6.5	5.4		7.0	quite erect.	7.0	are	0	
		Dot.	9-4	۲		¢⊢ı	4				ы		H	set 6/	4-1	o set	G-1		ы		H		4		4-4	۶		4			internodes	-1	
	1	Set Dol	2.9	9		2-6	C	one	6-7				9	110	9	ou s	5		3.4 r	rather	4-5 r		Com	,	2-9	5		6-7 f	plants	6.7 £	nteri)	
	Flw.	0.7	H	×		×	WAR	rous	¥		12	ie set	Wen	size	12	plants	M		W	vines	W		M		¥	12		M				ess.	
Days	to	DIE.	69	55		55	1,2	V170	55		99	3, SOR	55		62	some erect	99		77	sing,	77		99		53	55	`	56	set 6/	55	set 6/	leafiness	
	Ves	001	日日	Ħ		日	. E	auit	H		III	lants	8	le p	7 m	ome	E		7 m	miss	6-7 m · 77	7.	7-8 m		m L-9	7-8 m		8-9 m	tle s	8-9 ш	ittle s		
	Leaves	0	7 m	nts. 7 m		7	77	724.	_		7 m	sct p	ထ	riah	-	W S	9		-	1 row	9	1 6/2	7	,	-9	7	ess.	8	lit	8	lit	size	
	10 10 10 10	Urig. Unii. Hab. Vig. Ht. Modes No. Col.	16	Little set $6/24$, quite erect plants. India 7 t 7 110 13 7	•	India 5-7 t 7 110 10 7 m Variable nlant size little set 6/2%	2 -	et 6/	India 7 d 8 90 11 7 m 55 w		15	Variable plant size, several erect plants, some set	ω	One plant has purple flowers, variable plant	17	Some plants missing at end of row, some	91	5/24.	India 6 a 6 75 11	its in	India 6 a 7 80 14 6-7 m 77	bloom	India 7 d 7-3 85 11 7-8 n		13	10	Little set 6/24, variable leafiness.	14	Very vigorous, uniform, & leafy, little set 6/24	13	Very vigorous, uniform, & leafy; little set 6/24,	Little set $6/24$, variable plant size, &	
	Plt.	HT.	90	110		110	105	tle s	90		120	ever	06	lowe	06	end	85	set (15	pla	30	ou 6	95		8	80	ole.	102	63	100	ر مي مي	ble	
		15:	00	luite 7			ာ် ထ ီးႏ မ	lit	ω		<u></u>	se s	<u></u>	le f	<u>-</u>	1g at		ou,	9	Lf of	-	ssing	2-9		_	5-	raria	ω	form	8 100	iform, &	raria	
		ap.	. دد	, 24°, c		ب د	ב ב ב	ants	rd	54	ct.	t siz	rd	Dari	ರ	issi	rd	ants	づ	, ha	יס	s mis	rd			• つ	24,	42	, uni	د4 .	iun ,	24, 1	
	ç	il.	ω,	t 6/	6/24	1-7-in		t pl	4	t 6/		plan	6-7 d	n, s		its m		t pl		6/24		lant					t 6/	0	rons	9	rons	t 6/	
	- - - -		8	Le se	set	2 4 1 6	7	erec	4	Le se	ф ф	pipie	mi mi	plant	4	plar	(5)	erec	2	Loom	<i>(</i> 2)	ral F	g,	et 6/	a to t	, q	le se	o,	vigo	5	vigo	Le se	
1, 4.)	• •	Or18	India	Little India	Some set 6/24.	India	Tradie	Some	India	Little set 6/24	India	Varie	India.	One 1	India	Some	Indi	Some	Indi	No b.	Indi	Seve	Indi	No set 6/24.	Indi	India	Litt	India	Very	India	Very V	Litt	
Pea (con't.)	- L	r. I.No.	347336	347337		347338	347339		347340		347341		347342		347343		347344		347345		347346		347347		347348	347349		347350		347351	347350	1/0	
Pe	F	7	34	34)	34	34)	34		34		34		34		37		34		37		37		37	34		34		34	37)	

p.	80																																		
		Virus	0-5		0		0-2		0		03		0		0		0-2		0		0		0		0-5		0		0		0		Sun O	4	0
		•	d gn		gn		Cn				d gn		Sh Can		d Sn		gu)	d gn	}	d gn				1-m		-d gn		d gn		1-m		m~d	ŧ	p-
		Col.	t, m-d		್ಗೆ		ر ب		د		t, m-d		Jd		t, m.d		 1		t, 1.d	,			gn, t		t °				, 1-d		ئە		د		ئې
			H t		<u>ب</u>		ام ا د		gn,		H t		Ċ,		4		М		4		ا ۔۔		භා H		1-m	Sn	ا		4		1-m	gn	1-11	•	1 -m
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		SZ.	m-1	the same.	m-1		m-1		S-III		m-1		s-m		m-1		m-1		T. II				Ħ		m-1		S		m-1		I-W		S-m	r	-
Davs	to	Harv.	104	:H	104		102		102		104	flowers	104		104		104		95		104		50		104		104		104		104		104	(103
Ovules		Pod	7	internodes	ω		<u>-</u>		<u></u>	,	∞	purple f	_				_		9		(O		ţ		9				9		<u></u>		<u></u>	C	Σ
5	h-r-d	1	-	nte	10		01	,											~		~		01						_	plants.			~~		21
	Size	x Wth			1.5		1.2		1.6			d few	1.3		1.6		1.4		1.3		1.3		1.2		1.6		1.5		1.4	ted I	7.7		H.3	,	1.2
	Pod	Lgth.x			7.5	,	ф. В	,	6.5		7.0	plant had	6.5		7.0		6.3		6.0		6.9		6.0		7.7		7,2		ස	fòliated	7.2	,	6.5	1	0
		Db1.	9-1	distance	4-1		9 —1		с —і		c		ÇI		4-1		Ç-I		Ç-i		H		ы		с -1		۲		٤	sely	СH		ы		٤
		Set			2		<u>-</u>		2-6	,	9	one	9		5-6		7		2		2-9		5		9		5		2	sparsely	2-9	١	9	1	10
	Flw.	Col.	مخز	L, but	M		· 🗡		¥		W 14	: 6/54	M		W	6/24.	Z,		M		W&p		M		W		M		100	some	A		M		A
Days	to	Blm.			3	,	62	,	9		53	e set	62		62	set	9		55		52		55		9		52		24	nts;	95		52	L L	22
		01.	m	uite	E		Ħ		田田		TI.	some	用		日	some	Ħ		Ħ		티		で		m		ш		田田	pla	Ħ		m		E
	Leaves	No.	0	24 0	7-8 m		7-8 m	C	Ω Ε		7 m	row;	7-8 m		57 m	ize,	ω		<u>-</u>		7-8 m		7-8 d		<u>-</u>		<u>-</u>	,	ш 9	king	7 m		_	0	70 m
		Nodes No.Col. Blm.	15	et 6/	H3	6/24	15	1	15		14	end of row,	11		15	ant s	77		16		15	owers	12		14		10		12	ly 100	16		10	Ĺ	15 et 6/2
	Plt.	- 1	00	le s	06	set	120		120				90		15	e pl	100		1.05	ect.	50.	e fl	105		5		105		5	ragg	105		8	Ĺ	De si
	p	50	7-8]	litt	9-9	e, no	<u></u>	(7-8 120			sing	<u></u>	Ф Ф	4-7 115	riab]	7		7	te er	7-8 105	[ä.no	7		6-7 85			,	5-6 85	5, 50	7		ΟN	a	e; some
		D . V		gor,		Siz	_					mis		Siz		, Va.	•			qui		few]			-					ssing					Size
		Ha	ر ا	d Vi	ರ	lant	ر ب	0/5	ِ ب	٠.	d	ants	ರ	lent	42	dead	د	4.	4	/24,	t	hus	4	6/2	p q	/24.	رب	/24.	d	s mis	ب		Q (2)	124.	lant
		Unif	9	200	9	le p	·	set	သ ်	leaf	ಐ	l pl	_	le p	#	ant	-	6/2		et 6	_	ant	∞	set	ω `	et 0	<u>_</u>	et 6	5	lant		1		et o	le pi
1,t.)		Orig. Unif. Hab. Vig. Ht.	India 6 d 7-8 100 15 8 m	Fairly	India	Variable plant size, no set 6/24.	India	Little set 6/24.	India	Quite leafy.	India	Several plants missing at	India	Variable plant size.	India	One plant dead, variable plant size, some	India	No set 6/24.	India	Some set $5/24$, quite erect.	India	One plant has few purple flowers.	India 8	Little set 6/24.	India	Some set 6/24.	India	Some set 6/24.	India	Some plants missing, scraggly looking plants	India		India	Some set 0/24.	Variable plant size; some set 6/
Pea (con't.)		P. I. No.	347353		347354		347355	7 1	347356		347357		347350		347359		347360		347362		347363		347364		347365	,	347366	,	347367		347368		347369		0410
F		141	(1)		(1)		(1)	((1)		(1)		(1)		(1)		(*)		(1)		(*)		(1)		(n)		3		3		3	(3	0	7

		ro l					Ņ]	р.	81	
		Virus	0-1		0-1		gn 02		0		0-3		gn 0	gn 0-2		1 3-7		7		1-5		0-5		m	C)		m		02		0-2		05	(0	
		Š	13		I gu	رب د ب	1-d		1-d gn	•	gn		1-1	1-d gn		1 gn		gn	+	a u	ρ	1-d gn		gn	ದಿವಿ		gn		1 gn			Q	13	reak.	gn	
		Co1.	1-d		19	ರ ಜ	لم به		t, 1.	•	t, 1		1-m t, 1-m	t, 1-		1-m t,		1-d		1-d	spl	t, 1-		t, 1	1-d		در د		m t,		gn, t	gn spl p	1 gn, t	pea streak	t, F	
	g	J.	ثب			_	1d		-		~		Ä			7		(ب		ثه	gn	Н		-	ر+		Н		1-m		gn	S	~			
	Seed	Surf	ß		CΩ		ເນ		€73		S		Ø	Ø		ល		SQ3		Ø		ರ		Ω	ಬ		ល		ល		ໝ		ß	H	മ	
		SZ.	멸		S-m		Sm		m-1		S-B		日日	m-1		S-II		S-E		S-II		m-1		N-S	S-m		S-III		Ħ		S-m		S-III		E	
Days	to	Harv.	104	-	104		104		102		102		104	96		96		104		96		104		96	104		96		104		96		92		25	
Ovules	Per	Pod	5	•	9		9		9		7		9	2		9	6/24.	-		-		\ 0		7	0				9		2	,	9	leaves,	٥	•
	Size	Wth.	1.2		1.2		1.3		1.4		1.2		1.2	7.4		1.2	no set	1.4		1.5		1.3		1.5	1.3		1.1		1.3		1.2		1.1		L.0	are long
	Pod Si	Lgth.x	5.9	,	0.9		5.5		7.0		6.0		6.5	5.7		5.5		6.4		0.9		0.9		6.8	6.5 3		0.9		6.2		5.00 0.00			Some plants missing, variable plant size, plants look spindly and s	5.3	
		Db1.	H		۲		۲		۶۰		Ç⊷,		H	٤٠		Q-4		9-1		9 1		۶ı		H	4-1	flowers	ĸ		Ģ →		ы		H	indly	FH :	na Na
		Set	_		2		7		_		1-9		<u>-</u>	9		9	purple	2-9		2-9		9		0	2		9		2-9		9		2	ok sp	<u>.</u> د	ent a
	Flu.	Co1.	M	is.	W&p		W		W	m.	W		¥	M		W&p	int pi	A		W&p		W		W	M	purple	w&p		W		w&p		W	s 100	W	consistent and vines
Days			India 8 t 7 105 15 8 m 55 w	J pod	52		99		55	niform.	55		55	55		26	e plant	56		54		55		96	55	15	55		55		55		55	plant	55	
Da	58 t	01.B1	e e	Smal	п	rs.				e c	日日						•					日日		n			d		ш		m		ci	ize,	T	dur
	Leav	No. C	8	afy,	<u></u>	lowe.	7-8 m	0	7	, qui	7-8 m		7 m	7 m		9	small	7 m		7 m					m 9	4, one	9		7 11			4.	е 9	nt si		odes
		Nodes No. Col. Blm.	15	% । ।	13	Variable plant size, few purple flowers.	_	1/9/1	d 7 90 15 7 m	end of row, quite	10		12	15		13	are	12	•	2	ers.	11		∞	15	some set 6/24,	ro.		_		17	some set 6/24.	11	ola :	_	Dome set 0/24, distance between nodes quite
	Plt.	Ht. M		form		ind		OOM	11	nd of	5	ods.					leaves are		iforn	, ,	flowers.				* *	e set					r-q	e set	0	iable	0	Detwe
	PI	には	10	iun a	-7 92	few	70	n bl	8	at e	7-8 105	111 p	93		orm.	6-7 80		80	Iv un	95	ple	95		80	75	som,	99		85		55		100	var,	70	nce
		. Vi.	-	quite	ڼ	size	-	111	_	sing	-	Sms.	_	7	unit	9	indly	-	fair]	_	e pur	7		<u></u>	_	size	7		<u></u>		-	wers,	9	sing		OISIO
		IIab	t	,5h	دړ	Lant	ರ	s st	で	mis	ىد	6/24; small pods.	ď	ರ	uite	ರ	e sp	'ਹ	,24,	で	Som	ත	/5h.	ಶ	って	ant	つ	/2h.	יט	. 42	rd	f10	4	mis	ط ا	74,
		Unif,	∞	et 6/	9	le pl	7	lower	ω	lants	ω	set	_	က	et, q	<u></u>	quit	က	et 6/	7	set,	ထ	et 6/	<u></u>	22	le pl	9	et 6/	٠,	et 6/	9	urple	26	lants	9 +	/o 1e
~		Orig. Unif. Hab. Vig.	dia	me s	dia	riab	India	Many flowers	India	Some plants missing at	India	Little	India	India	Some set, quite uniform.	India	Plants quite spindly,	India	Some set 6/24, fairly uniform.	India	Little set, some purple	India	Some set 6/24.	India	India	Variable plant size,	India	Some set 6/24.	India	Some set 6/24.	India	Some purple flowers,	India	me p.	ola	Ele S
con't	1		· ·	SQ.		Va		Ma				Li			So		Pl		SO		H															D D
Pea (con't.		P. I. No.	347371		347372		347373		347374		347375		347376	347378		347379	7.	347380		347382		347383		347384	347385		347386		347387		347388		347389	21.4200	34 (390	

p	82
adia.	

p.	82	2																nodes.															
		Virus	4-0	r	`	m		0		0	0-5		0-1		0		#		02		0-3		0		2-0	0		0-3		0		0-5	
		Col.	, 1 gn	+ &	3	, d gn		gn spl b		c+	, 1-d gn		, 1 gn		, 1-d gn		, 1 gn	consistent between	t, 1 gn		gn, t		, 1-d gn		, m-d gn	1 gn	•	, 1-m gn		, m gn		t, 1 gn	
	で	.,	٦ ,	ا می		٦ t		42		1-d	ب دب دب		H		ئر د		님	siste	1-m		1-d		H		-H	دب	•	H د		t t		Jm	
	Seed	Surf	Ø	Ŭ.)	Ø		Ω		ß	Ø		ഗ		ß		Ø		Ø		ξŊ		വ		ល	Ø		Ø		Ø		ಣ	
		SZ.	Ħ	E C		m ·1		S-III	ڊ د	m-1	Н		m1		m-1		E-S	, but	m1		S S		m-1	,	T-W	털		s-m		m1		-	
Days	to	Harv.	92	00	1	104		104	consistent.	104	104		104	,	96		104	long.			96		104		26	96		104		104		104	
Ovules	Per	Pod	9	7	-	9		2	but cons	7	_				√		9	distance	<u></u>		_		9	\	٥	9		2		9	ł		
	Size	wth.	1.0	۲,	1	1.5		1.2	great, t	1.4	н (1)		1.6	6/24.	1.4		7,5	size, d	7.5		1.0		1.3	1	T.2	7.4		1.2	some set	7.4		1.5	
	Pod S	Lgth.x	5.3	6.7	-	9.9		6.2		7.0	row. 6.4		7.1	set	6.0		5.5	plant s	6.6		4.9		6.8	(0	6.8	,	0.9	plants, so	6.5		6.5	
		t Db1.	r (c)	164°	4	44		4-1	internodes		H H		G →1		4-1	but consistent.	١٦	variable r	84		ч		ᠳ		н)-о	J 1-9			ct plar		6/24.	4 —1	
	<i>T</i> .	Set.	9 +00		`	5		\circ		9	at end		7	erect,	<u></u>	consi	9		<u></u>		£				0	9	,	9	erect			_	
Ω	FIW.	. Col.			CO	Ž,			between	3	ing e		M	uite	M	but o	×	row,			M		ਨਾ		3	M		*	some		ne set	M	
Days	to	Blm.	55	ה ה ה	set	55		54	ance	57	missi 56		9	ts d	55	ng,	55	id of	55		53		55	į.	22	56		55	ize,			62	
	Leaves	Nodes No.Col.	7 m	Deveral erect prants, variable prant size, some Trais 6 a 7 70 10 6 m 56 1	Some plants missing at end of row, some set 6	7 m		8	Some purple flowers, some set 6/24, distance	ω Ε	6/24, some plants missing at 100 13 7 m 56 w		8 11	One plant appears to be dying, some plants quite	α Ε	Some set 6/24, distance between nodes long,	7 m	Some set 6/24, some plants missing at end	_ m		7 m	erect.	J m	f	# TT	14 m		12 m	plants missing, variable plant size,	17 m	Some plants missing, variable plant size,	ω El	
		Nodes	11		of row	13		10	et 6/2	15	some 13		15	ng, sc	∞	ween n	2	missin	∞		13	quite erect.	11	t		7		7	iable	<u></u>	le pla	13 13	į
	Plt.	Ht.	100 11	varia 70	t end	80		90	some s	ည် က			110	be dyi	50	ice bet	95	lants	100				100	(770	100		105	S, Var	100	variab	85	OTTUM
		Vig	7	auto,	ing a	- 0		_	ers,	ω	e set		ω	s to	-	istar	7	ome p	_		7	ome p	<u></u>	t	******	-			issin	<u>. </u>	ing,	ر ما سار در	ST.I.TS
		Hab.	5-7 t	ا ا ا	miss	ᆼ.	.4.	ರ	flow	ಶ	som d	:4:	دړ	pear	゚゚゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙゙	24, d	Q	24, S	د	5/24.	ر ب	S , 4	دب	. 4.	٠ ١	دپ	. †	42	ts m	_් ට •	miss	ا ا ا	49 10
		Unif.	5-7	72.T2 7	lants		et 6/2	-	urple	7-8	leafy,	et 6/24.	5-7	ant ar	; ص	et 6/2	57	et 6/2	9	set (9	et 6/8	; ; ;	et 6/2	o et 6/2	5-7 t	et 6/2			5-7 à	ants	α + 675	4/0 J
n't.)		Orig. Unif. Hab. Vig.	India	Thaile	Some p	India	Some set 6/24.	India	Some p	India	Quite leafy, some set India 7 d 7	Some set	India	One pl	India	Some s	India	Some s	India	Little set 6/24.	India	Some set 6/24, some plants	India	Some set 6/24.	Some set 6/24.	India	Some set 6/24.	India	Several	India	Some p	India	Some sec 0/24, lairly unilona.
Pea (con't.)		P.I.No.	347391	347392		347393		347394		347395	347396		347397		347398		347399		347400		347401		347402	21.41.02	24140	347404		347405	1	347406	1	347408	

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		Virus	0	ر ا ا)	0		4-0		0		0-2		0		0-1		0-5		η-O	n 7/6	0-3		0-3		0-1		0		2	5		\sim	
		,	d gn	5		d gn		gn		d gn		gu						d gn		H H	bloom 7/	gn				gn				d gn			t)	
		Col.	, 1-d	1	1	, 1-d		\vdash		, 1-d		4		د		l gn		, 1-d		-	п	سا		t)		1 8		& gn		1-d	در		కం	
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t	a	V. Sz								1											size,	u t				H				Ó			r-1	
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Orns J ac	Per	Pod	7	7	<u>.</u>	9		<u></u>		ω		5		9		9		9		9		9		9		9		_		∞	<u></u>		<u></u>	
Č) P4	! .1																			variable													
	ize	Wth	1.5	1 γ	1	1.3		1.5		1.5		1.3		1.6		4		1.4		1.0		1.4		H.3		1:1		1.4		1.3	1.1		1.3	
	Pod Size	Lgth.x	6.8	α)	9.9		6.1		7.2		5.8		6.9	size.	9.9		7.0		5.5	ated;	6.7		6.9		6.5		6.9		6.5	6.5		4.9	
	Щ	11-1	9	4	,	9		9		[ш л		0	plant	0		[50	folia	0		0		9		9		9	9		9	
		Db1	H	¢.	4	44		4 L		4-1		H		G-4		4		4-1		ы		r 9		G ⊷I		H		ф 9		¢-4	H		e4 9	e.
		Set	9	9)			2-9				ښه		9	riable	<u>t</u> -		9		7	sparsely	5-6		1		9		56		5	9		56	size.
	Flw.	Co1.	×	þ	. .	W		M	. 0	M		×		M	, vari	M		F1		W				M		×		M	e enja	M	A		¥	plant
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		10		Ę	1	п		E	plan.	e		Ħ		a	d of	日日		日		E	ome	e		日日	6/24	텀		Ħ	some set	g	日日		H	aria
	Leaves	No. C	8	6-7 m	 >	7 m		9	ble	7 m		7-8 m		7 m	g en	6-8	e e	5-7 m	٠	5-7 m	50	ω.		7-8 m	set	8		8	some	7 m	m 2-9		<u>-</u>	7 5 t
		des	7	.t.	M	12		11	aria	\sim		0		10	ssin	a 5 d 5-7 100 12 6-8 m	Siz	9	rect	5	ssin	H		13	ome			-		12	10		0	6/2
		양	105 14	42/9	fro	7		~	W . W	13	6/24	10			s mi	-	lant	5-7 105 16	te e	_	s mi	~	orm.	-	W . S	0	/24.	-	lea		H		10	set
	Plt.	Ht.	105	set	nd o	6-7 95		4-7 95	n ro	110	set	6-7 105		6-7 105	lant	100	le p	105	qui	5-7 110	lant	80	unif	80	n ro	95	et 6	110	rm &	6-7 85	80		4-6 85	some
		Vig.	7	ome 7	ng e	6-7	row.	1-7	ng i	-	оше	2-9		6-7	me p	5-7	riab	57	ants	57	me p	ω	ite	7	ng i	∞	ane s	ထ	uniform & leafy;	2-9	7		7-10	ng,
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		f. H		ifor	ts m		sing		ts m		ifor		6/24	9	6/24		6/54		6/24		6/24		6/54		ts m		rous		oron	46/9		set 6/24.		ts m
		Gni	∞	y uni	, plan	9	mis	7	plan	Φ.	y un	9	set	0	set		set		set	77	set		set	,	plan	0,	vigo	ω,	vig	T too	ω,	set	. 2	plan
t.)		Orig. Unif. Hab. Vig. Ht. Nodes No.Col.	India	Fairly uniform, some set $6/24$.	Some plants missing end of row.	India	Plant missing in row.	India	Some plants missing in row; variable plant	India	Fairly uniform, some set 6/24.	India	Some set 6/24.	India	Some	India 5	Some set_6/24; variable plant size.	India 6	Some	India 5 t 5-7 110 15	Some	India 7 d 8 80 11 8 m 56	Some set 6/24; quite uniform.	India	Some plants missing in row; some set 6/24.	India	Very vigorous, some set 6/24.	India	Quite vigorous,	India 7 d	India	Some	India	Some plants missing, some set 6/24; variable
Pea (con't.)									01		petal		LO		LO		02		01						02				-3					02
ea (P. I. No.	347409	347470	-	347411		347412		347413		347414		347415		347416		347417		347418		347419		347422		347423		347424		347425	347427		347428	
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	Virus		0-1	02	0-3		0-5		0-1	0		જ ૂ	J I	c	>	0-0	1	C		0	J	0-2		spl 0		0-2		0		03	0	7	
	Δ	• \$	ب	gu	n W)		O.						of Total	ರ್ ಇರ] ಸ	4 1 E	•	נת	ر بر د	۵				gn s							0	د	
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	Co	•	gn,	t spl	spl p	spl p	d gn spl	br, spl	m gn,	ď	T-a gu	gn spl	6 17 2 1	p, en	# 611,	u, com	0 -	Spt. p	0	b, gn		u.		gu		gn		m-d g		gn,	spl t		
	- CO -		r-l	s &w t	S &W 1	Ø	ro O	۵	M III		⊣ ≽	M C Kitt		Q		3		a c		י ם		ĭ.		W III		W Q		M m		න ත		H MSS C	
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Days	to Harv.	,	96	96	96		88		16	20	2	.42	0	90	2	00) (are. BB		α α)	88		98		88		88		87	5	76	
Ovules			_					•			1	0											2 m								vines.	_	
0	Pod		9	9	9			stage.	ц (7		le set	_	u		7		200	y.	L	`	[-	ted.	-		9		9		u v		r	
	ize Wth.		7	1.7	1.0		1.0			ָר ר	⊤• ⊤	, some	+	ר כ	T • C	۲,	1 0	wilere 7.8	1	C) -	۲.	located	1.3		1.1		1.2	spots.	1.0	, thin	-	
	Pod Size		_	_				edible	_		,	afy	_	_		~				_		_	are			<u> </u>	d.			1	others,		
	Pod		7.0	7.	6.0		5.		5	7		ry lea.	6/0).	7 7 7	•	6,3	1 +000	Tocated	2	7		5.7	ovules	6.6		6.2	cate	5.8	onr.b]	5.1		, †	
	Db.1		ы	ы	9-1		G -4	pods	4-1		-1	, very	7 +	מפני ט	4	۶.		ELF T	4	۶	4	ب		9–4		ы	e 10	H	ve]	ы	42	4	•
	Set		2-6	3-4	9		2	les,	2-9	7 3	010	row,	, ;	e z)	S			₹.	9		7	where	2-9		_	s an	<u>-</u>	is he	_	ler	reen)
	Flw.		ρı	വ	Б	4	Q ₁	n vines	C ₁	5	4 .	d of		, some	2 _i	۵)	۶	Žų.	P	r)	Q		ρι	ovule	а	some pods have purple		smaller	rh r	
Days			52	55	55		53	thi	9	7	3 .	Fairly erect plants, some plants missing at end	7 00	c7	_	53	700	This S d 6 85 13 6 1 on 53) (Furple spots on pods where ovules are located. India 6 d 6 70 8 6 m 53	ted.	53	on	55		53	small plant, pods have purple spots where ovules are located	10		50	Some plants missing, plants smaller and leaves	o le li	
A	2 2		8	-			ರ	very	=======================================		₫ ,	n ga	1 0		∄	נש			1 -	Loce	1000)) [ots	目		1-m 53	S wh	m	ers,	で	d le	SOF	i ì
	Leaves No. Col				7 m		S	es ,	_	α	· c	issi		Sorous	-	9	7 (4			are	27.0	9	e sp	7		9	spot	9	oth	_	r an	ods.	1
	ES EL		10 7		-gre			leav	N		η.	ts E) . [J),		ا- در	(מ טרר) [Les	0.00	}	urpl	N			ple		than		alle	o na	4
	Oric. Unif. Hab. Vig. Ht. Nodes No. Col.		afy.	India 5 d 6 65 7	Few plants in row, pods yellow-green. India 6 d 7 85 12 7		m	Very few plants in row, small leaves, very the		כר	-1	plan.	4 (Dome prants quite erect, quite vigorous, India 6 + 7 105 11, 7 m	Some set 6/24, good vigor, leafy.	3 0	, and the	Thur. L	1	0VU 0	0.750	India 5 d 6 90 9 6 m 5	S , O	India 6 t 6 105 12 7 m 55		ω	Ind	Φ	Some plants have less foliage than others,	CV	S SE	Small plants, quite leafy, green pods, some	4
	Plt.		82 Ly 1e	65	ds ye 85	set.	748	SEE C	70		2	ome	, ,	י, ע היה ה	TO L	702	(44 (85 85	`	here 70	here	06	node	105		011 9	have	85	foli	20	lant),s	afv.	6
	b		(airl	10	pod 7	ome	١٥	row	20	1		0 h	- 6		- ro	1 10) t	מ)	N S	ds w		een	S	,	\O	Spc	0	(D)	_	200	H - 0	1
	Λ.		44		COW,	50 80		in				Lant	+	ນ	000	0	2	TIT CC		001 C	סת ו	4	Detwo		.01		Q °2		re l	•	ssin	nite	
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	nif.	,	6 ttle	2	unts	One plant dying, some set.	2	w pl	_	Little set.		erec	- 440	2017	t 6/	2	140	ما 116. ح	1	spot	spot	5	stan	9	Some set 6/24/70.	9	11 p	9	ants	9	ants 7	lant	
	ىــ; ئ		ia 4 li	ਲ •ਜ	Few pla India	pla	ಪ -	y fe	India	tle.	ر ا ا	rly	4 (ומן טיי	1 0 C	India	[4	ה•ר כי מ	3 -	pte.	ple	ا ما م	60 di	ed •⊢!	e se	India	Sms	ia,	e pl	od •⊷!	e pl		 -
Pea (con't.)			India 6/24	Ind	Few	One	Ind	Ver	Ind	Lit	Tucta	Fai	C C	T	Som	Ind	S. C.	Tind	4	Fur	Pur	Ind	Lon	Ind	Som	Ind	One	India	Son	India	Nom	Sma	
(co	P. T. NO.		347445	347447	347448		347450		347452	01/2/10	470	347455	111	347456	2	347457		347458)	347459		347460		347461		347462		347463	7	347464	347466)	
Pea	0		347	347	347		347		341	21.0	110	377	7	2117	7	347)	347)	347)	347		347		34		34	(34	347)	

p.	86	5																																		
		Virus	0-3		7-0			0-5		02		0-1		0		m			02		0		0		0		0-1	•	0	C	U	(02	(0	
		Surf. Col.	s gn spl b		g us	sted, b spl p		skw lgn		s&w 1 gn & 1 b		w m gn		w 1-d gn,	d gn spl p		spl		s&w 1 gn spl b	t spl b	skw t & 1 gn		wes m gn		gn	p, spl p;	s&w 1 gn, t		sew 1 gn, t	+	٥	r	w 1 gn & t	ſ	w 1 gn & t	
	Seed		U.		01	foliated		S		ß		Par.		125		04	s have		S		ຜ		W		-		S		CO.		-					
		Sz.			8			ω		W		S-m		S-m		S-II	spod a		5-2		H		S-E		日		S-III		Ø	C	Ω	,	m-1	f	H-1	
Davs	to	Harv.	88		91	sparsely	,	96	,	96	(22		91		85	some		16		16	•	88		92	1	33	(200	5	77	1	26	(91 vine	• 0
Ovnles		Pod	9.5		9	plants		<u></u>		_	1	_		7-8		Φ	flowers,		5		9	nt size.	8		Φ	•	9	1	_	9	>	c	œ	t	T	בים
	Size	x Wth.	1.0		1.0	some,		1.0		1.0		1.3		1.0		1.3	white f		0.		1.2	variable plant	H	side.	1.2		7.4	(7.5	כ	7.7	(1.9		r 7.3 1.4 short internodes	יייייייייייייייייייייייייייייייייייייי
	Pod Size	Lgth.x Wth	4.5		0.4	leaves	(ν. ω	,	0.9		0.9		5.7		6.2	, few		5.5		5.5	, varia		0	4.9	,	6.5	(6.3	0	9.0	(2.5	t	7.3	0.10
		Db1.	н		Ä	small		٩щ		С —І		۲		H	٠ ئ	۲	vigorous		ы		ы	spots		spots	Н		Н		۲	ş	4		۶.	erect.		
		Set	9			S SI	,	9	1	9	1	<u></u>		7	Lowel	5-6 r	vig		2		2-9						_	,	٥	7	- 100	0/22.			Many	7
	Flw.	001.	<u>.</u>		Д	plants		ρı		Pi		р	ā.	Q	al fl	p&W	very		ρι		Q	purple		purple	Pi		P		а	:	M +		M	quite	5 W	2011
Dave	to	Blm.	. 50	1	20	(1 T)	,	09		55		53	ocate.	55	sever	53	not		55		53	have	53	have	55		53	ì	χ	20						
	res	101.	Н		H	sme ,		日		日日		日	re]	ರ	but	d G	size,		m 1-9		H	spoc	E E	spoo	Ħ		Ħ		2-1 田	\$	=	83 , 83	0 (124 1	s d smal	O III Co
	Leaves	No.	9		LA	sing,		<u></u>	,	9	,	9	les g	<u></u>	/25,	7-6	ant s				m 9-h	ome r	5-6	ome I	_	,	9	lants	7	25.	-	gorou	6-7 d	Size,	77	TOT
		Nodes	0	ts.	9	s mis		10		110 10 6 m 55	(∞	e own	11	set 6	0	le pl		ω	pods.	2	ed, s	·ω	ed, s	H	,	∞	d sno.	2	et 6/	2	te vi	ο,	Lant	10 10	reary
	Plt.	Ht.	55	plan	9	plant		100		110		105	wher	100	some	80	ariab		95	small	80	oliat	90	oliat	105		88	vigor	2	ome s	777	, qui	32	ple p	55 nite	20 70
		Vig.	7 55	small	9	some	spots	_		_		_	spots	-	ods,	9-4	ng, v		5-7 95	irly	5-7	ely f	9	ely f	1-9		88 9	very) 17	ze, s	0	ssing	2-9	varia	6-7	بر دیر
		lab.	ď	/15,	ਰ	/15,	rple	4		دب	5.	دب	rple	ب	d uo	で	nissi		ದ	5, fa	ಥ	spars	ر بط ا	spars	د+ ،		で	not	b	nt si	٠	CS mi	ָ שׁ	lat,	ರ ಗಿಂಡಕ್ಕೆ	7007
		nif.	_	9 spc	2-6	ogs e	ds pu	2-5	t 6/5	2-5	t 6/2	9	ve pu	<u>-</u>	spots	#	ants	spots	, 0	t 6/2	N	ants	5	ants	9	t 6/2	9	t for	7	plan	ם י כ	plan1	٠ <u>٠</u>	te f	7 onta	2011
't.)		Orig. Ur	India	Green pods 6/15, small plants.	India 5-6 d 6 60 6 5 1 50	Green po	some pods purple spots.	India 5-7 t	Some se	India 5-7 t	Some set 6/25.	India	Pods har	India 7 t 7 100 11 7 d 55 p	Purple :	India 4 d 4-680 9 4-6d 53 p&w 5-6	Some plants missing, variable plant size, not	purple spots.	India	Some ser	India 5 d 5-780 5	Some pla	India 5 å 6 90 8 5-6 m 53	Some pla	India 6 t 6-7 105 11 7 m 55	Some set 6/25.	India	Good set for not very vigorous plants.	India	Variable plant size, some set 6/25.	בווחדמ	Several plants missing, quite vigorous, some	India	Pods quite flat, variable plant size, I plant	India 7 d 6-755 10 7-8 d 5 Some plants missing quite leafy for small	ord omog
Pea (con't.)		P.I.No. Orig. Unif. Hab. Vig. Ht. Nodes No.Col. Blm.	347467		347468			347469		347470		347471		347472		347473			347474		347475		347476		347477		347478		34,479	08/12/16	00+7+0	0,121,0	34,7481	00 1010	347482	

	sn	2						m		8												CI			0	ď	. 	p.	87 m
	Virus	0-2	0		0) 	ط 0-		0-3	(0	n		0	(>	(0	0		0-2		0	c		2-4		0-3
	Col.	gn	-d gn)	gn		, t sp					gn	gn splbb		1-m gn,	г	1 8n		क्ष	le gn gn		gn, t		gn		Cont	gu		gn
	4	日	1-m-d		Н	r	ച ്	pods.		ng Th		t0 H	U.S.)	1-m	1 br	د	4	, נן	pale d gn)	1 8		1-1	-		E		b 0
	Seed	⅓	**		S &W	,	S m-s Co	mall r s&w	/25.	M		×	Ø		Ø	0	S S	,	ល	3		M		M	0	23	M		M
	S22	m-1	T-		日		S-E	s-m	loom 6	m-1		目	日		S-m	(מ		Ħ	目		m-1		m-1	£	1 1777	S - S		1-E
Days	to Harv	88	16		76	C	0	~ 0,	in bloom	92		16	83		91	60	7	5	76	88		16		16	0.7	_	16	1	16
Ovules	Per	9	_	set 6/25.	9	,	9	or pods	flowers	7	c	∞	9		0	7	o	L	۷ ر	.5.		_		0	Y)	9		_
	Size x Wth.	1.2	1.5	some s	1.3	r		1.0	many	1.5		ر 0	0.0		1.4		7.7	,	T.T.	set 6/		1.6		1.4	رب در	1 4	1.0	•	N.
	Pod Lgth.	5.2	8.6	0	4.9	r L	7.7	on one	nodes,	7.8		10.4	4,3		0.9	7	4.0.4			some 5.0		7.2		8.0	9		5.0 1.0		7.0
	Db1.	ы	9-1		ы	;	F4 1	spors	between	4	large	H	ы		4	5	1 14	- 4	Н	vagor, r		SI		Н	Ç.		7 2 1		H
	Set	2-9	2-9	rple	9				betw	7-8		9	7	pods.	2-6	9))	yer			pods.	_		<u></u>	7	- 4	101 9		
	Flw.	ρι	ď%w	few purple	Q _i	1		purple p 5	stance		824	M	ρ	20d	P4	;			MæD	े, ए	ll po			W	1		M W		M
Days	to Blm.	53	53		62	(S)	75	, some	di	55	size	22	14]	leaves	50	, C	عر م	TI A	, אַכ	Leafy 53	t, small	53		55	5		55 55		52
		B	side. 5-6 m	plant	ا م	1	1 -C	h-7 m	/ smal	2-6 d	verage)(m L-9	ants,	m /) E . m 2:		d	very	ood se	p 9-9		7 d 55	09 6 2) •r	date.		5-6 d
	Nodes No.Col	11 (n one side. 8 s 5-6 m	l, one	, לו		77	Then I	i, ver	ω	for a	01	-	11 pl	- 11	6/25	2 4 61	ام ماء، مارا	=	owers 10	.ze, g	7				, 610E	9 6	size	6/25
	Plt. No	105	pots o	liated	١٥.	L	7	riabie 15	liated	0	i set	2	0	ry sme	5	ne set	7	מו של שני	7	ple fl	ant si	0	t size	58	er pod	0	ממ סו	plant	3 ne set
	18. H	6-7 1	ple spo	ly fo	96 1	1	C 1-4	5-7 1	ly fo	9 9	800	7)-0	09 2-9	g, ve	7 8	E 3 SOI		77 620	7	5-6 8	8 pl	9 L-9	plen.	7 5	les p		6-7 6	iable	5-6 7 E, sol
	lab. V	دب	t t	parse	ل د+		, C	ussin t	parse	ď	iness	د _ا	ි ත්	issin	で	issin) . ()	TEST	י ר	is nav	iness	ರ	riable	ğ	nao at	, c	d	, var	d nissin
	nif. H	9	ds hav	ants s	7	ser o/	+ 1	ants n	ants s	9	e leaf	ر م	6	ants m	<u></u>	ants n	- 0	aucs E	_ [ptant 6	e leaf	2	t, var	7	t, mar	-	5	t 6/25	snts m
1t.)	Orig. Unif. Hab. Vig. Ht.	India 6	Some pods have purple spots on one side. India 6 t 6 90 8 5-6 m	Some plants sparsely foliated, one plant has	India	Little set 0/27.	India	Nome plants missing, variable plant size, India 6 t 5-7 115 14 4-7 m	Some plants sparsely foliated, very small	India	Variable leafiness, good set for average size	India	India 6	Some pl	India	Some plants missing, some set 6/25.	Gome n	Downe prants missing, intuite set 0/2); many ilowers	בומוזמ	Deveral plants have purple flowers, very leafy, good India 6 d 5-6 85 10 6-7 d 53 p 7	Variable leafiness & plant size, good set,	India	Good set, variable plant size.	India	Good set, many ovules per pod.	Most no	India 5 d 6-7 60 9 6 d 55	Some set 6/25, variable plant size.	India 5 d 5-673 8 5 Some plants missing, some set 6/25.
Pea (con't.)	P.I.No.	347483	347484		347485		34 (400	347488		347489		34 (490	347492		347493	31,71,01		31/7/105		347496		347497		347498	347499		347500		34 (50T

p	3	8
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Pea (con't.)	n't.)						Days	70					Ovules	Davs				р.
				Plt.		Leaves	to	Flw.			Pod	Size	Per	40		Seed		38
P.I.No.	Orig. Unif. Hab. Vig. Ht. Nodes No.Col. Blm.	Hab.	Vig.	Ht.	Nodes	No.Col	Blm.		Set	Db1.	Lgth.x	x Wth.	Pod	Harv.	Sz.	Surf.	Col.	Virus
347502	India 6	ರ	7	65	0	6-7 d	1 55	×	_	H	5.8	7.4	7	91	E-S	≱	1 t, 1-a	0 ug
347506	Good set.	دي	5-7 97	26	00	5-7 m-d	1-d 53	A	9	9-1	6.2	1.2.	2	88	m - 1	A	l en t	0
	Variable plant size, many flowers still in	Lant s:	ize,	nany	flower	s still	in b		1/25,	D3		/25.	-	,	1	:		•
347507	India 7 d 6-755 10 6 m 55	ರ	2-9	55	10	9	1 55		9		9.9	1.0	9	91	S-E	M	1 gn, t	0~3
	Some plants	miss.	ing,	some	set 6/	25, ver	y sho		distance		between nodes.	odes.	L	((
347508	India	d d	α	53	12	д -	1 55	≥	5-6	9-1 ·	2.6	1.0	<u>ν</u>	96	日	ຜ	l-m t,	0-5
347509	Some set 6/25, some plants missing at end India 7 d 7 60 11 7 d	(22) g	ome p	tants 60	missing a	ng at e 7 d	end of	of row, 55 w	800g 8	good vigor. 8 f 8	8 1	1.5	_	96	E	W	1-m gn pale gn	0
347510	India 5-6	ರ	9	99	0	7		M	_	9-1	10	2	9		Ħ	W	P	gn 0-4
	Some plants missing, some pods very dark green	miss	ing,	some	pods v	ery dan	rk gre	en, ve	, very thick vines	lick 1	vines	for small		plants, s	still m	many f	flowers 6/2	:5,
347513	good vigor.	ۍ.	7	200	10	m_r 7 0r	4	Þ	Ľ	¢	0	ר	7	88	£ 1	Þ	5	C
04/140	Some plants		ים מים	t. end		M SOme	a total	6/25	Jarge	t nods	7. Jar	ינועט פע	- v	3	1	ž	100	>
347514	India 8 d 8 85 12 7 m gn 55	d d		85	12		n gn 5	ה בי ה בי	9	7 44 2	6.0	f 6.0 1.0 8	φ	98	W	SEW	gn, t, gn	0-3
	Long distar	ice ber	tween	node	s, som	e set (5/25.										spi p & spl	1 b
347515	India 6	で	<u>-</u>	09	6	9	1 55			4	8.0	1.7	ω	103	Н	W	1 gn, t	0
	Some plants at end of row missing, still many	s at en	nd of	row	missin	g, stil	11 man		flowers (6/25,		possible better set	ter se		at later d	date,	fairly vigorous	crous
	small plants.	00																
347516	India 6	ヷ	ā 5-7 90	96	01	5-7 d		ρι	<u></u>	អ	5.1			88	S -m	Ø	님	gn 0-5
	Variable plant size, some pods have purple	Lant s:	ize,	some	pods h	ave pur		octs	on one		side, great		distance l	between	nodes	٠	spl b	
347517	India 7	で	_	80	H	9	d 53	ρι	_	H	0.9	1.3	2	88	m-1	M	1-m gn,	0-5
347518	One plant appears to be dying. India 6 d 7 50 lC	appears d	3 to	be dy 50	ing. 10 7	7	ā 55	Þ	_	Ç-4	8.4	1.8	Q	103	目	**	gn spl p t, 1 gn	0-2
	Large pods, similar to 'Wando', very vigorous,	simi.	lar t	o Wa	"opu	very vi	gorous	s, good	d set	٠	,							
347519	India 6	ಗರ	٠ - ر	95	,	, , ,	i 53	ρ		7-1	6.5	1.0		48			l gn, gn	0-1
	some plants sparsely lollated, distance between nodes	Spars	sely	rolla	rea, a	ıstance	Detwe	en nc		12 10	ng , so	Tong, some pods	nave	purple	s spots	no	d tds	
347520	one side, good set. India 6 d 7	್ವೆಂಂಡ್ರೆ ಪ್ರಕ್ರಾ	- t	85	2	7 0	d 53	Ω	80	٤	5.8	1.2	77	91	S mm	SEW	1 gn	0-2
roap.le	Some pods have purple spots on both sides,	lave pu	urple	Spot	s on b	oth sic		ŏ	1 :		ı	i.	t	Č				(
24 ()CT	india o	دا	_ '	770	2	p-m-j	1-d 53			ы		T•2		72	N-10	×	L-m gn	0-2
347522	harr or plants missing, some pods have purple India 6 d 7 80 12 7 m-d 53	ints mi	rssıng 7	89 soi	ne pod 12	s neve 7 ¤	purp10 1-d 53	spots p (on 2	one	side, 6.0	good vigor.	lgor.	88	SI-SI	×	1-m gn	1-3
	Some plants missing, variable plant size, some	missi	ing,	rarial	ole pla	ant siz	e, son		s hav	re pu	rple s	pods have purple spots on both	1 both	sides				

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	Virus	0-2	07)	0	(2-0	0		0-2	C)	0-2		0		0-3	C	>	0		0		0	(0-2	m		02	gn,
f	Seed Surf. Col.	sew t, 1-m gn	2 8 th 1 m 673		1 gn, 1 gn	spl p	1 1-a gn, t	1-m gn		1-d gn	- R		1-m gn		1 t, 1-d gn		t, 1-m gn	-	1 GT	t & gn		1-d gn, t		t & 1 gn	r	m gn, 1 gn	spl p	b, spl p	n spl	b, spl p, 1
3	Seed Surf.	S S	r. S	e V	O	d	SEM	¹ ≥		M	U.	2	S		Ŋ		Ø	7	מ	M		M		ß		≥	O)		Ŋ	
	Sz.	S-E	ν. Ε	pods ar		i	덤	Н	to 'Wando'.	m-1	<u>[</u>	1	S-m		m-1		S-II	\$	a a	m-1		~		S-II		Ħ	E		n-∞	
Days	Harv.	88	85			5	77	91		85	07	-	76		76		97	0.7	7	103		88		26	t	7.6	84		87	
Ovules	Pod	9	VC	r0	,	t	_	ω	similar	_	7	-	S		9		_	C	N	0		01	(9	1	_	9	,	9	
t E	v Wth.	1.0	(*	red	1.1	(L. T	1.9	plants s	1.0	0	}	1.0	spots.	1.5		1.5	ר		1.5		5.0	-	1.4	,	T. 7	8.0		0.0	
ل	Leth.	0.9	5.7	pods have	5.5	0	0.0	9.1		5.5	6.5		5.1	red si	7.0		7.7	α u	•	0.6		8.2	-	7.4	,	0.5	4.2		2.0	
	Db1.	Я	۶			1	Ы	с —і		ы	Ģ .		H	have	4		с н	¢	4	4-1	0	ы	,	9-4		Si.	\$-		H	
	Set	1-9	sides	some			2-1	∞	large	-	71		5	pods	<u></u>	(7-8	7		7	ovules.	7-9	1	7	77.7	_	-1	. ,	2-9	
:	Col.	Q		size,	ρ		Pœw	×	nts,	Д	ļ3			0)	¥		×	;	\$	A	large (M	•	Med	set (C4	ρ	pods	Ді	
		53	n bot	دد		 L	73	ots. 53	pla	53	r.	some	53	80	9		52	rt rt	pods.	55		53	1			23	ers.	a11	53	ods.
А	i. B		ots o	e pl	d.		ر ا	de sp	mall	p-m	Ę			ssin	田田		Ħ	£			kins	田		Ħ	ය . ව	ᇤ	flow m-d	s sm	日日	11 p
	No. Co	7	gs t	riab]	6-7 d	1 L	0	ve re	for s	7	7	nissi	9 m	ts mi	_		<u></u>	1	- 6	-	adgr	ထ	1		LSSI	O	nany flor 6-7 m-d	1 set	ш 9-5	Sme
	Nodes No.Col. Blm.	16 7 m-d	ds re	S, Va	H	÷	77	ds hav	eafy	11	œ	ants	7	plan.	17		13	4	issin	10	th to	10	igor.	13	nts m.	77	till 1 6	, goo	10	eaves
+[0		0	le po	lant	•	• ())	le po	te 1		. 53	le pl	. 2	Some				Ţ,	its m	5	S Wi	_	v pod	2,	pra :		S S	aves		17 17
ַ	語品	7 100	se, some	ted r	82,	Spots	770	SOIL FEE	, qui	8	n pods	SOIL .	5-6 105	ted,	7 90	(7 80	705	plar	115	e poc	20	t, go	7 105	Some	2	n poo 6	& le	75	sms ,
	. Vi	2	size	olia	7	red		size 8	size		ots on	size	5	olia				+ +	some	<u></u>	larg	∞	od se		ers,		its o	tems	,	sing
	Hab	د	plant 5-7 d	ly f	, ರ	is have	. د	Lant	lant	ر	s spo	Lant	5	ely f	7	/25.	g ,	/25.	/25.	, 40	125,	ر م	908	ر د	MOTI	د	p g b	8 6 83	7	s mis
	Unif.	9	le p	parse	9	ods }	7	le p	le p.	9	urple 6	le p	5 <u>-</u>	pars	-	et 6,		et b	et 6	. 9	et 6	9	pods		rpie	_ '	ordin 9	plan	5	lants
t.)	P.I.No. Orig. Unif. Hab. Vig. Ht.	India	Variable plant size, some pods red spots on both India 5-7 d 5-7 70 8 7 d 53 n	Some sparsely foliated plants, variable pl	India	Some pods have red spots.	india	Variable plant size, some pods have red spots India 6 d 8 40 7 8 d 53	Variable plant size, quite leafy for small plants	India	Some purple spots on pods.	Variable plant size, some plants missing,	India 5-6 t	Some sparsely foliated, some plants missin	India	Some set 6/25.	India 7	Some set 6/25.	Some set 6/25, some plants missing large	India	Some set 6/25, large pods with tough skins	India 6-7	Large pods, good set, good vigor.	Indla	rew purple ilowers, some plants missing, some	11101 g	Some purple spots on pods, still many flow India 6 d 5.6 60 6 6-7 m-d	Small plants, stems & leaves, good set, sm	India	Some plants missing, small leaves, small p
Pea (con't.)	No.																									,				- ad
Pea	P.I.	347524	347525		347526	21,70	24/26/	347528		347529	347530		347531		G-20048	(G-20049	0-20020		G-20051		G-20052	2	+C002-5	200	~~~~~	G-20059		G-20060	

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	Virus	0-2	odes		J-D	0		0-1		0		\sim		0		0		
	Col.		'Miomas Laxton 60', Variable plant size, good set, not very vigorous for standard, distance between internodes	Ş	110													
	Seed Surf.		ice betwe	8 1	3		'Wando'				ovules.							
25	to Harv. Sz.		, distar	\$	Ħ		ndard.				, large							
Ovules Days	Per t	7	standard	1		• -	for sta	ယ		∞	are quite heavy, large ovules.	0		œ		6		
6	1	nparison 1.9	one for	L	C.T	arge pod	or leafy	1.6		1.5	are qui	7.7		2.0		1.7		
	Flw. Pod Size Col. Set Dbl. Lgtn.x Wtn.	ltivars included for comparison 42 w 6-7 r 7.5 1.9	ry vigor	1	-	ssing, lang, 8.2	igorous	7.0		7.5	ds, pods	9.5	Ø Om	8.5		8.6		
	Set Db.	include 6-7 r	, not ve:	α	٦ ٥	lants mi. 8 f	t very v	н 0		8	od duntc	9	Alderman	7 £	ivar.	7 f		
Days		42 W	good set	; 501	3	some p.	ou spod	55 W	ood set.	39 w	5, very]	55 W	lard. ',	55 W	ard cult:	55 W		
, more	Leaves No.Col.	Standard cu	size,	r	ت ح	7 d d	skinned 1	8 d	orous, go	Э	00gs 6/1	ಇ	for stand	. ф.	a standa	7 a		
	Nodes I	St.	ole plant	t	_	green 1	thick s	Φ	lite vigo	ω	green l	0	ich set 1	10	size for	디		
	P1t. /1g. Ht.	4-6 65	', Varial	cent.	7	7-8 45	y large	8 58	r 60°, qu	6 45	rigorous	1 90	r, not m	09 2	plant s	54 2	oln'.	
	F. Hab.	づ	exton 60'	consist	ゴ	arvel', (set, ve	づ	1 Treezes	ರ	quite ,	ىد	fy, bushy	で	variable	ಭ	r, 'Linco	
(•)	ig. Uni	Y. 5	Plomas La	reat, but	. I.	Little Mr. Y.	ery good	Y. 8	Perfected	Y. 9	parkle'.	Y. 7	Quite leafy, bushy, not much set for standard. 'Alderman'.	9	ection',	Y. 6	Good vigor, 'Lincoln'.	
Pea (con't.)	P.I.Mo. Orig. Unif. Hab. Vig. Ht. Nodes No.Col. blm.	G-12990 N.Y. 5 d 4-6 65	•	great, but consistent.	N Aloates	'Little Marvel', Good set, green pods 6/1, some plants missing, large pods. G-19710 M.Y. 6-7 d 7-8 45 9 7 d 53 w 8 f 8.2 1.5 7	Ä	G-19711 M.Y. 8 d 8 58 8 d 55 w 8 r 7.0 1.6 8	to .	G-19712 N.Y. 9 d 9 45 8 8 à 39 w 8 f 7.5	50	3-19713 M	8	Dark	seed Perf	N.Y. 6 d 7 45 11 7 d 55 w 7	5	

PISUM SATIVUM subsp. arvense PISUM SATIVUM subsp. elatius PISUM SATIVUM subsp. hortense PISUM SATIVUM subsp. syriacum

1970 Descriptions and Evaluations

Spacing 4' x 1 1/2" + 4". Seeded in field 4/16, 128 seeds/accession. Notes taken 6/23-25/70. Fertilizer 640 lb. 10-20-20/A. Seeds treated with Arasan 75.

l=very variable		1=poor				1=light	,		1=few or poor	ı				1=large		t=tan	m=medium		0=least
5=medium	d=dwarf	5-medium		irst flower.		m-medium	first bloom.	p-forma-d	5=medium	r=rare		per pod.	to Harvest - number of days to harvest of ripe pods.	m=nedium	w=wrinkled	p=purple	1=light	spl=splash	5=nedium
Col. 3 Uniformity 9=most 5=medi	t=tall	9=very	n centimeters.	- number between base and first flower.	000	s. d=dark	to Bloom - number of days to first bloom.	w=white	9=excellent	f=frequent	in centimeters	- number of seeds	t - number of days	s=small	s=smooth	gn=green	b=brown	d=dark	9=most
Uniformity	Habit	Vigor	Plant height in	Nodes - number	Number of leave	Color of leave	Days to Bloom .	Flower Color	Set of seeds	Doubling	& 15 Pod size :	Ovules Per Pod	Days to Harvest	Seed size	Seed Surface	Seed Color			Virus general
m	#	2	9	7	ω	2	10	디	12	13	14	16	17	18	13	20			21
Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.			Col.

p	9	2
mail:	-	

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Virus	5 some.	0-2 /70. 0-3	3	0 0	t 26	05	4	5-0-4	9-0
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	i vi	7			a a			9	0
			ou .	д H	no b ver	gn, b, good set	gn spl b b, gn spl b iable plant	다 A A A	년 A
COJ.	p1 po	s p s p	nts	tds	ط ه ط الم	good s	spl gn s	gn spl blk, gn spl , spl g	r sp pl
ည	gn spl ucco po	d gn spl flowers d gn spl	κ. Γ	d gn	liated, nod gn & bet 7/7, ve		gn s b, g	d gn spl 1, blk, d gn spl b, spl p	d gn spl b, spl p
ल भ	stu		elatius	ס	oli d set	googs	H	ed.	Ω
Seed	ω ^	s ti	ela 1, f	ល	S S S	മ	s spoots	s iat s	ល
SZ.	s-m s gn spl p & leafy, stucco pods	variable plant size, very small internodes, still p 1 r 7.2 .9 9 98 s s	poor vigor. 2-4 m - poor vigor, no bloom 7-7, all plants dead 7/21. P. sat. subsp. elatius. 3-5 m 81 Variable plant size, no bloom 6/25, poor vigor, sparsely foliated, few plants,	El-S	wely small plants, no bloom, poor vigor, sparsely foliated, no some plants in force of the second second second force of the plants missing, still flowering 7/7, few pods set 7/7, very	% 8 3-4 m 60 p, w 3-4 r 6.0 l.0 8 91 s s gy Most plants sparsely foliated, few plants with white flowers, some pods, tucco pods.	Some plants missing, little set 6/25, stucco pods, long slender pods. 7 3-4 m 62 p 1-2 r 8.2 1.0 8 88 s-m s b, gn spl b Poor vigor, few plants in row, one plant dying, sparsely foliated, variable plant	Several plants missing. little set $6/25$, poor vigor, sparsely foliated, blk, dk b l2 h -6 m 60 p 5 f 9.1 l.0 l0 88 s-m s d gn spl Some plants missing, poor vigor, but better than previous rows, some b, spl p	10 3-4 m 62 p 2~3 r 8.0 l.0 9 98 s Some plants missing, variable plant size, sparsely foliated, poor
[vi]		s node s	subsp.	က် ကို !	spar s fev	rs,	ende s.	s ely fo s-m rows,	ر ص
Days to Harv.	82 forous	98 nterr 98	sat.	98 tiu	or, s 102 7/7,	91 Lowe	91 88 88	98 98 ous r	98 ate
	gor	ü	sa [se]	ela	rigo 18 7	=======================================	Long	STOTA	foli
Ovules Per Pod	3 p 7 r 5.0 l.0 7 82 with small leaves & pods, quite vigorous	10 mall	P. Spars	0 50	or or 9	8 hite	25 α ± α α α α α α α α α α α α α α α α α	HO HO DE	9 13
	uit	r 8.5 1.0 plant size, very sm r 7.2 .9	21.	sub	pod 10w	, u	pod g,	vi	នួម
Pod Size Lgth.x Wth.	5.0 1.0 % % pods, qu	1.0 very	17/	0 1 1	0.9	1.0 with	1.1 200 1.0 1.0	1.0 poor 1.0 er th	1.0 spar
X S	spoc	e s	lead	8	blo stil	ıts	stuc nt ô	5, r	e .
Pod Lgth.	S.0.	8.5 3:12	ts o	4 7 19	ou , 6.6	6.0 plan	8.5 8.2 91ar	7.8 6/25 9.1 it be	3.0 Si:
	4es	ant	lan. 25,	70.	sing sing	ew]	6/2 ne	r set f	r 8.0 plant siz
Set Dbl.	r leave	មក្ល	1 p	r //1/	lant	44	OHEN	e r or,	ਮਰ
Set	7	2 1 1	, a.l	ω 8: -	Ll r	r 3-	Le s 1-2 row	ttl. 5 vie	2-3
Flw.	SIES	varie P	77 0 b]	p owe,	smal p	p, w 3-4	itt]	00 H	p
िम् ।	1-m 53 p plants with sm	4	om '		1y : ew]	¥ Fy	, li	ping.	\$ \$
Days Leaves to Nodes No.Col. Blm.	L()	Some plants missing, 13 4 m 70	blo 81 ize	70 1any 76	remel 70	60 sely	ing 62 62 71a	62 issi 60 ing,	62 ing
1.01	1-m Lant	m iiss m	no no nt s	d L H	m m ous	m	m m m	in i	m iiss
Leaves No.Col	7 [d]	15 3-5 m plants miss 13 4 m	2-4 m 3-5 m plant	4-5 ate	ants, 2 ext 16 4-5 m too vigorou	3-4 m	SS II S-4	4-5 m lants 4-6 m	3-4 m
기기	7 nall	3. 1an	viggi le	olia	ts,	lant	lant	l pj	Lant
ode	∞ × ∞ ×	13. P.	or	10 y f	1an 16 to	o t o p	e 13.	7 era] 12 e p]	10 e pJ
	Ver		poor vigor poor vigor 3- Variable pl	se]	7 plants, 2 extremis. 16 4-5 m 7 Not too vigorous,	Mos	Som	Sev	Som
Plt.	10 2	62.65	2-4 40 plants - 2-5 55 atius.	16. 65 50 50	85	55 st	50		5
50	7 55 arvense.	3-6 65 tius. 3-5 80	2-4 40 lants 2-5 55 trius.	25.7	no see 4-5 85 trius.	4-5 55 latius. lants, st	4-6 tius 5-4	4-5 60 utius. 4-6 75 utius.	3-5 65 atius.
⇒1 -1	arv	e1a	6 p	sin	l, l	elar plan	elat elat	elat elat	elat
Hab	d sp.	p . p	15. da	d d d	3p. e. 7/21 d d sp. e. 7/21.	d d	d d d d d d d d d d d d d d d d d d d	ф. ф	р. О рост
9-4	adus	sdus	6/2 sdus	ts its	subs ods 5 subs	ubs vig	subs subs	subs 5 subs	ncc
Uni	رد – س	F. 34	Dom C	1/2/	2) C	t. su	the ware	25.8	st st
13	Tur. 7 d 7 55 8 7 1-m P. sat. subsp. arvense. Very small plants	Tur. 3 d 3-6 6/ P. sat. subsp. elatius. Tur. 5 d 3-5 80	Tur. 3 d 2-4 40 Tur. 3 d 2-5 55 Tur. 3 d 2-5 55 Ro sat. subsp. elatius. Variable plant size, no bloom 6/25, poor vigor, size, no bloom 6/25, poor vigor, size, no bloom 6/25, poor vigor, size, subsp.	pods (/21, plants dying. Tur. 6 d 5 65 10 $h-5$ d 70 p 3 r 7.9 1.1 9 98 s Some plants missing, sparsely foliated, many flowers 7/7/70. P. sat. subsp. elatius. Tur. 2 d 2-4 50 15 2-4 1 76 p 1 r 4.5 0.7 6	$\frac{P}{7}$, sat. subsp. elatius. 7 plants, 2 extremely small plants, no bloom, poor vigor, sparsely foliated, no $\frac{7}{7}$, 3 pods $\frac{7}{21}$, no seeds. 5 d $\frac{4-5}{2}$ 85 16 $\frac{4-5}{2}$ m 70 p l f 6.6 0.9 9 102 s s d gn & b. F. sat. subsp. elatius. Not too vigorous, few plants missing, still flowering $\frac{7}{7}$, few pods set $\frac{7}{7}$, verlittle set $\frac{7}{21}$.	Tur. 4 d 4-5 55 8 3- P. sat. subsp. elatius. Most plants for poor vigor plants, stucco pods.	Grc. 6 d 4-675 P. sat. subsp. elatius. Grc. 3 d2 2-455 P. sat. subsp. elatius. size. stucco pods.	Grc. 6 d 4-5 60 P. sat. subsp. elatius. Grc. 5 d 4-6 75 P. sat. subsp. elatius. set 6/25, stucco pods.	Grc. 4 d 3-5 6 P. sat. subsp. elatius. vigor, stucco pods.
Or	Tur.	Tur.	Tur. Tur. Tur. P. s.	Soi Tui	P. se 7/7, Tur. P. se litti	Tur. P. Se for p	Grc. Se Size.	Grc. P. sa. Grc. P. sa. Sa. Sa. Sa. Sa. Sa.	Grc. P. sa vigor
P.I.No. Orig. Unif. Hab. Vig. Ht.	17.	772	477	976	178	62.	500	008	11
H	343971	343972	343974	343976	343978	343979	344005	344008	344011
141	(1)	(1) (1)	(1)	(1)	(*)	(1)	(1) (1)	m m	m

	Virus	0-3 stucco	4-0	0	0	0	spl b	0	0-3	р 0-2	0-2	0-1	1 gn 0-3	ທຸ	1-0	9	
	Col.	d gn side, stu	g lqs	d gn	spl p	gn	t, 1 gn	apl p	P1 -1	& t spl	lt gn	t spl	ants. p, b,	stucco pods,	t, m br	gn, gn spl	
		w l-d on one si	en e		gn s 1 gn	w 1-m gn	1-m t,	g uz	lgs d	en e		t,	plants. p,	some stu	1-m t 1 gn,	s d gn stucco,	
,	Surf.		x ende	Ø	Ø	30. S&W	Ø	ß	×	5.50	ß	1/2		80	.11.		
	SZ.	m-1 spots	s and sl	H	Н	343980 m=1	m	H-T-H	E-1	st 6/25	H	S	spread s-m	6/25,	m J Sma	s-m some	
A	Harv.	88 purple	88 s x long and slender	88		, P.I.	98	102	102	some set	ري احد	102	very large, wide-spreading 1.2 7 103 s-m s	little set	95 m. one very small	1.2 7 83 some purple pods,	
Ovules	Pod	10 [gor,]	10 pods,	9	set.	NW 323,	7	သ	56/25	on vines, :	plant 8	Φ)	large,		8 6/25, 0	7 purple	
	Size x Wth.	.9 poor vi	.9 10 stucco pods,	1.6	plants, good set. 5.6 1.7 6	r to row 1.4	1.7	7.5	some set 6/25		riable 1.7	1.9	very 1	II	2.0 set		
É	rod Leth.	4 8.0 .9 10 88 foliated, poor vigor, purple	8.3 Pods,			similar 6.7	7.5	8.2		streaks 8.2	6/25; variable 8.0 1.7	7.2	6/25,		8.3 little	5.7 leaves,	
	Db1.		r s on	4-1	snort	very	H	4-1	unif	purple	set 6/	۶۰		ines,	7 reafy,		
	Set	p 3-4 sparsely	p 3 r splashes on			good set, very	<u></u>	<u></u>	fairly uniform, 5-6 f 9.0	some pu	s s s	9	leafy, little	thick vines,	w, p 6-7 r fairly leafy,	6 n, si	
	Col.			*	1eary, very 53 w 8	pood a	×	pods.	بنزه		little w 8	se.	fy,]	, thi		p brow ted.	
Days	50 Blm.	60 sing,	60 purp1		2 1	~ 10	5.	09	vine 60	ssing 61	gers,	orten 60	% leaf	ssing	55 vers,	53 rning folia	
	No.Col.	.5 10 3-5 m 60 Some plants missing.	11 3-5 m 60 Some set 6/25, purple	יט י	Very Vigorous & 8 & d	Vigorous & leafy 15 5-8 m	Little set 6/25	Leafy, some stucco pods.	Some purple on vines,	Part of row missing, 10 608 m 61	Few purple flowers, 9 8 d 53	ip. p	Very vigorous &	Some plants missing,	-8 m = flo	d d	
H	No No	10 3-	et 6,	Φ,	Λ1. Θ Θ	ous 8	e set	soir	ne purple on 14 4-7 m	of re	urple 8	subs	vigo	plant	15 7-8 m purple flo	bous. 8 7 d e plants to sparsely	4
	Node	10 ome p	11 ome s	10	very 8	Vigoro 15	Little 11	Leafy,	Some 14	Part 10	Few p	sat.	Very	Some	Few p	Some	
4 5 5	Ht.	•	70 8			Ŋ	~ 0				90 90	30 P	80 80		100 3e.	50 See Scragg	5
	Vig.	5 à 4-5 85.5 subsp. elatius. So	6 d 4-5 70 subsp. elatius.	8	7 d 8 45	subsp. hortense.	subsp. hortense.	subsp. hortense.	subsp. hortense.	subsp. hortense.	orten 8	od set, <u>F</u> 8 90	orten	orten	7 ortens	ortening,	
	Hab.	р р. Гр. р.	d d	ָם ק	- PO	ال د د د	p. t.	p. p.	. in d	p. p.	p. p.	d go	p. p	p. h	में प्र	d d po	
	nif.	5 subs		- C						sqns	sqns	eaves	sqns 6	subs	7 subs	6 d subsp.	
	P.I.No. Orig. Unif. Hab. Vig. Ht. Nodes No.Col.	Grc. P. sat.	pods. Grc. P. sat.	Tur.	Tur.	P. sat. Tur.	P. sat.	P. sat. Tur.	P. sat.	P. sat.	P. sat. subsp. hortense.	Small leaves, good set, P. sat. subsp. hortense. Tur. 7-8 d 8 90 18 8 m 60 p	P. sat. subsp. hortense. Tur. 6 d 7 80	P. sat. subsp. hortense. little set 7/7/70.	Tur. 7 t 7 100 15 7-8 m 55 P. sat. subsp. hortense. Few purple flowers,	Tur. 6 d 6 50 8 7 d 53 p 6 r Posses Some plants turning brown, small some plants missing, scraggly, sparsely foliated.	
	P. I. No.	344012	344013	343980	343981	343982	343983	343984	343985	343986	343987	343988	343989		343990	343991	

م

P. 2	ro l													
	Virus	m	7	7		0-2		5	Q ₄		N		\sim	
	>		م	spl	Q				2		blk	blk	ρ	4
				م		م	Q		zp.		[d	Total	ار 0	4
	Col.	m-d br	gn spl gn	d lgs d lgs ng	O O	s gn spl b	spl	n	50 U		s mgn spl blk 2	S C	m gn gn spl p	
		m-d	日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日	gn	vin	n s	٥	1-d			₽ 0	9	1-1 E)
rd	Surf.	Ø	m s&s d		in	0.0	26.		က လ			itt		
Seed		Ω	Ω	Ø	th		19	ഗ	eav		Ø	~	A	
	Sz.				or,	10	set					ges	7-1	
ro	101	.Ω	Ø	s 96	sparsely foliated, about 5 plants, poor vigor, thin vines	02	cle cle	0.3	sma]		r 6.0 0.9 9 96 s	erno	7 96 m-l w l-m gn ovules.	
Days	Harv.	95	82		oor	96	litt	82	رم الط		96	inte	96	
Ovules Days Per to	- 1		٠ ا		ď '				pod			50 50 10	ა დ	
)vul Per	Pod	9	rigor 6	10	nts	0	Ye	<u></u>	of		6	101	7	
6	. !		r v		pla		ng,		ide			ng,	o O	,
9	Wth	7.3	pood 1.0	0.0	5	0.7	dyi	1.0	ο Ω		0.0	ivi	15.)
Pod Size	×		5,		out		ınt		uo 1			urv	l	,
Pod	gth	5:5	6/2	2.5	ap	0.30	pla	5:5	o s		0.0	£ 3	3.0	
	-1	V	et	9	ced,		one	4 1	octs		9	J.	f 8.0 15. s on stems, large	
	D	٢٠	le :	自	liat	4	3,0	۶۰۱	SO O	•	۲	eate	f Or	
	Set	1-2	itt	ubsp. <u>syriacum</u> . 62 p 1-2 f 6.2 0.9 10	sparsely folia	1-2	ate	5	rple ds.		 -	BIL	6 eaks	
A LH	انا		۲ ۲	Syr	ely	H 1	oli		dying, purplestucec pods.			ces	str	
	8	Д	ver	<u>,</u> ਯ	ars	di Ci	F -	ہم	oco cco		P	han	p ed	
to to	lm.	65 p 1-2 r 6.5 1.3	53	ubsp. syriacum.		0	sel	53			64 p 1	One plant in row, chances greater of surviving, long internodes, little b spl blk	55 p 6	
⊢ I	m :		ate.	ις) ι	455,	ָה מ	par	1-d	ew			row	5/70	
Leaves	CoJ	М	Coli	sat	19 3		υ <u>ν</u>	II	SS &	•		in	π 5/26	
Les	No	7	L 6	EI T	set	10	igoj	9	Lant		2	ant	7 et (
	des	11	rse. 10	3.	tle	13	r d	10	0 0		10	plq	10 e se	
	NO		Spa	pod	Lit.	Ω Ω	Poo:		SOU		. ,	One	Some	
년 다 다	ب	0	: 40	000	70	5		2	rpl		.0	•	00	
P4	P.I.No. Orig. Unif. Hab. Vig. Ht. Nodes No.Col. Blm. Col. Set Dbl. Lgth.x Wth.	343992 Tur. 5-6 d 5 70 11 4 1	P. sat. subsp. syriacum. Sparsely foliated, very little set 6/25, poor vigor. 343993 Tur. 5-6 d 65 10 6 d 53 p 6 r 5.0 1.0 6	Small leaves, some stucco pods. P. sat. s 343996 Tur. 4 d 3 70 11 4 1	P. sat. subsp. syriacum. Little set 6/25,	Tur. 3 d 3 55 13 2 1	P. sat. subsp. syriacum. Poor vigor, sparsely foliated, one plant dying, very little set 6/26. b spl p slender.	Tur. 6 d 6 55 10 6 m-d	P. sat. subsp. syriacum. Some plants are some plants missing, purple on seams, few		t 2 90 10 2 1	P. sat. subsp. syriacum. set 6/26/70, poor set.	Tur. 7 t 7 100 10 7 m 55 p 6 f 8.0 15. 7 P. sat. subsp. syriacum. Some set 6/26/70, red streaks on stems, large ovules.	
	Vie	2	rria	3 3 3	rria	υ ×	ria	9	ng,		0	rria	7	-
	3b.	771	. S.	SOB	18.			ret.	53		4.5	53	, si	1
	H	10	psp	689	dsc.	27	dsq.	J	dso s mi			bsp.	osp.	*
	nif	5-(sul 5-(eav 4	sul +	3 3 7	sul.	9	sul			ns 1/9	7 sul	
	[E		at	H	at	T.	P. sat. su		at.			at.	t,	
t.)	rig	ur.	ur.	mal.	3 100	ur.	s	ur.	one S		ur.	et is	ur.	1
on	0	H	HIE	O E	Pri r		DI W		[H] 02		H	PH W	EI D4	!
Pea (con't.)	. No	992	993	966		343997		343998			344001 Tur.		344003 Tur. 7 P. sat. sub	
Реа	P. I	343	343	343		343		343			344		344	

PISUM SATIVUM Greenhouse (second planting)

1970 Descriptions and Evaluations

5" pots, planted 8/13 & 14/70. Seeds scarified and treated with Arasan 75. 13 seeds/accession. Notes taken 10/16/70.

		sp=speckled
<pre>l=very variable i=intermediate l=poor</pre>	pr=purple l=few or poor	br=brown 0=least
		t=tan
5=medium dw=dwarf 5=medium .ower.	md=medium bloom. l=light 5=medium r=rare	st of ripe pods m=medium wr=wrinkled gn=green 5=medium
Uniformity 9=most 5 Habit t=tall a Vigor Plant height in centimeters Nodes - number between base and first flower.	Number of leaves. Color of leaves dk=dark md= Days to Bloom - number of days to first bloom. Flower Color w=white l=1 Set of seeds 9=excellent 5=m Doubling f=frequent r=r	16 Ovules Per Pod - number of seeds per pod 17 Days to harvest - number of days to harvest of ripe pods. 18 Seed Size
	8 Number of leaves. 9 Color of leaves dk=d 10 Days to Bloom - number of da; 11 Flower Color w=wh; 12 Set of seeds 9=ex 13 Doubling f=fr 14 & 15 Pod size in centimeters	Ovules Per Pod - Days to narvest - Seed Size Seed Surface Seed Color Virus general
M4 50 60		
(0) (0) (0) (0)		(01. (01.

	Virus		0		0	0	0	0	0	0	0		0	0	0	0	0	0	0		0	0	0	0	0	0			0	0		0	
	Col.		1 gn		t)	t)	1 gn	1 gn	1 gn		t.		٠	gn	gn sp br		S	an			1 gn	gn sp pr	gn	gn	gn	gn sp br			l gn				
Seed	Surf.		WI		Sm	Sm	Sm	Sm	Sm	Sm	Sm		sm	WIL	Sm	Sm	Sm	Wr	WL		SIII	Sm	ML	WL	WI	Sm	Sm		WL				
:	SZ.		Ħ		H	日日	Ø	w	ល	띰	日日		ш	ശ	ល	W	ຜ	ຜ	S-E		တ	H	ſΩ	m	S-m	co.	S-m		Ø				
Days	Harv.		74	(88						477		78	79	62	57	29	29			472		29	29	70	47	78		78				
Ovules Per	Pod		L-9	(ω,	9	<u>-</u>	5	7	9	<u>_</u>		2-6	2	4-5	4	4	2	4		9	_	2	2	2	5-6	2		2-6				
Pod Size	Lgth.x Wth.		1.5					6	1.5				1.8	1.2	1.0	0.9	1.0	1.5	1.4		7.4	1.5	1.0	1.1	1.1	1.2	1.1		1.4			,	• •
Pod	Lgth.		7.1		4		9		5.9				9.9					0.9	5.0		6.5				5.0				0.9				at base.
	Dbl	則	9-1		4-1	4-1	۶ı	۶۰	ы	٠,	•~		4-1	ы	ы	H	ધ	۶۰	ы		٤	ы	ы	۲	ы	٤٠			ы			1	oranches
	Set	ativum	5		<u>ر</u> - ر	9	9	<u>-</u>	Ç,	_	4		ω	ω 	Φ	_	77	2	Ŋ		4	ω	4 4	ر ح		9			m				oran
Flw.	C01.	Pisum s	M		M	¥	W	×	×	×	W		M	1 pr	а	pr	pr	w pr	¥		Q	pr	pr w	l pr	pr	l pr	pr		<u>r</u> d	pr		pr	0
Days	Blm.	Pis	040		20	20	20	45	64	50	43		64	39	35	32	33	33	63		24	26	70	710	94	710	45		94	88	1	78	Leaves
eaves	No.Col.		dk		md	묘	md	md	日日	pu	dk		H	日日	dk	ш	Н	dk	日		dk	dk	Ħ	Ħ	田	dk	dk		m	ğ		md	Small
À			0				9		9	9	0		00	7	7	4	Φ	7	☆		5	ω,	≠	Φ	7	8	9		ω,	9	(very
	Nodes		13		23	21	17	21	22	22						12	12	15	13		15	24	17	° 19	12	15	24		18	21		_	•,
Plt.	Ht.		81	•	138	140	145	150	140	147	155	pod.	146	110	109	75	115	125	95	•	158	150	120	133	115	110	130		127	110	15.	140	syr1 acum
	Vig.		+6		_	ω	0	0	_	6	+6			ω		_	-	7-8	4	o pod	_	ω	Φ	Φ	ω	Φ	0		Φ,	ω	elatius		
	Hab.		dw	tive	t)	ct.	t)	د	42	ct Ct	د	attractive	t)	·~	•H	фw	фw	4	매	stacco		t)	t)	t)	t)	د	t		د	دب	e Q	ٔ ب	supsp.
	Unif.		6	attractive	_	ω	0	0	6	6	ထ	ic,	7	Φ	9	ω	5	ω	5	stic	9	7	_	Φ	†	2	ω	late.	<u>-</u>	2	al		sativum
	Orig.			Very a	India	India	India	India	India	India	India	Prolif	India	India	India	India	India	India	India	Neoplas	India	India	India	India	India	India	India	Very la	India	Grc.	P. sat	Tur.	F. sat
	P. I.No.		347277	,	347308	347361	347377	347381	347407	347420	347421		347426	347446	347449	347451	347465	347491	347511		347512	347523	G-20053	G-20056	G-20057	G-20058	G-20061		G-20062	344538	4 0 0	343597A	

TREES, SHRUBS, FRUITS and ORNAMENTALS

1970 Descriptions and Evaluations

Kindly sumbit requests before April 10, 1971.

1=poor 1=prostrate	1=poor			ium t=tan	l=few			d=denture	m=medium				1=little		dun[d=[d	d=dark		1	T-poor.
				ht m=medium					1=light						l=long				
5=medium 5=medium	5-moderate			gn=green l=light	5=medium			e=entire	r=red			y=yellow	5-moderate		h=heart	m=medium			mean-c
9=very 9=erect	9=very	n in centimeters.			9=many	eaf in centimeters.	sm=smooth	s=serate	een	row in full bloom.	ntimeters.	wh=white	9=much	ser in centimeters.	o=oval	r=red		1	A-excertenc
Uniformity: Habit:	Vigor:	Plant height and width	Number of branches.	Bark color: br=brown	Number of leaves:	Length and width of leaf in centimeters.	Leaf surface:	Leaf mergin:	Leaf color: gn=gr	Date 50% of plants in	Flower diameter in cen	Flower color:	Amount of bloom:	Fruit depth and diamet	Fruit shape:	Fruit color:	Date fruit ripe.	Winter hardiness)	Spring recovery)
m #	5	9	7	∞	6	10	11	12	13	17	15	16	17	13	19	20	21	22	23
Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.	Col.

SR 98						0	0		0	-	9	0.42	m	9-5 2-9
HM		0.1			10	6	6		0	∞	0	3	7	1-9
Date Ripe		6/12	6/11	11/9	6/15	91/9	91/9							
		۲		۶ı										
Fruit Diam Shape Col.		E	r O	で	H	٢	٤							
hape		rd Ld	pl c	0	0	0	0 1							
Fruit iam S		3.5	3.0	2.0	2.3	2.3	2.0							
1 1														
Depth		2.5	0,	2.0	2.5	4.1	3.5							
Amt. Blm.		0/	9	9										
• .		wh	wh	wh	wh									
Flower Diam.Col		1.3	1.5	1.6	2.5				rea					
Date.Blm.		5/.	8/9			1/9			thunbergi atropurpurea					
• ,	rol	chiloensis d d gn 6	gn 6	gn 6/8	gn		gu		gn	gn	gn		gn	gn
<u>8</u>	FRUITS	10er	で	ಶ	ಶ	n m	7	83	regn	koreana e m g	species e m g	50	댐	耳
.Mar			ū	ರ	ರ	138	w	SHRUBS	bere	NOI e		O	Φ	Φ .
af	SMALL	Sm	Sm	Sm	Sin	agar	SH	ומ	thun	sm	Buxus	Sm	Sm	sm leaf
Leaf No.Lgth.Wth.Surf.Warg.Col	32,	Fragaria 4.8 sm	0.7	6.5	8.5	Fragaria hybrid	5.0			Buxus 1.8 sm	٦. ١ ١. ١	1.1	1.0 s	and .
Lgth		5.5	8.2	8.7	o, m	9 6.5	7.3		Berberis 2.5 1.3		9 2.1	1.8	2.0	1.7 form
		5	5	9	9	0	Φ		9	L	9 Jeaf	-	7 1e r	gn 6-8 1.7 rly unifor
P.I.No.Orig.Unif.Hab.Vig.Ht.xWth.Br.Color		gn	gn	gh	gn	gn	gu		H	50 6 gn&br 7 2.4 fruit 6/16/70	gn verv	gn 7 1.8	gn 7 2.0 variable plant	N.Y. 5 5 4-6 19 20 4-6 gn 6-8 1.7 .8 sm Strain #2, Dr. O. Curtis. Fairly uniform and leafy
No		\sim	7	77	9	∞	∞		77	t 6/	► S	5 ants	10	4-6 F
Plant No.		20	30	20	70	130	130		13	50 frui	35 zoro	20 t pla	25 6 tis.	20 tis
用用		20	25	25	35	30	25		10	35 10r	30	25	23 Cun	19 Cun
Vig		9	9	9	9	ಯ	∞		9	6	5 8 30 35 7 Fairly vigorous.	5 nati	2-6 23 Dr. 0. Cu	4-6 19 20 4-6 Or. O. Curtis. Fa
Hab.		7	7	9	5	ي آب	3-5		77	3-5 6 35 flowers nor	(F)	5 eft	5 2 Dr	5 th
nif			. l		5 5 56-	0			2	P .	þ	t.s. 1	5 #1	5 #2
ig. U		Neth 8	Juspa Neth 6	Neth 7	Neth 5 5 11VT' 56-11	Jap.	'Benizuru' Jap. 8 3- 'Fukuba'			N.Y. 6 neither	N.Y. 8 Glenwood	M.Y. 5 5 5 25 20 5 g Roberts left matio. 4 plants.	N.Y. 5 5 2-6 23 25 8 Strain #1, Dr. 0. Curtis.	N.Y. 5 Strain
2.0r									36 8				N W	N CO
I.No		G-12531	G-12529	G-12530	G12582	324182	324183		G-17786 S-9	G-18177	G-18999	G-19000	67-43	44-79
Pi		Ġ	5	5	ڻ	35	3		Ġ	Ġ	5	5	19	67

Date	Ripe WH SR
Fruit	Depth Diam Shape Col.
Amt.	Blm.
Date Flower	.Blm.Diam Col.
af	Surf.Marg.Co
Bark	Color
No.	Br. (
Plant No. Bark	P.I.NO. Orig. Unif. Hab. Vig. Ht. xWth. Br. Color No. Lgth. Wth.

SHRUBS

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ata.	ompactur 6/16
Buxus species	ngu Ugu
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sn	spi
Bux	Sm
1.2	gonum 6.0
2.0	Poly 6.3
9	0
gnæt	gn&r
5	9
30 Rober	115 eafv
16 F. H	75
5 ight	8 8
N.Y. 6 3-5 5 16 30 5 4th. level, right. Roberts	43 N.Y. 8 3-6 8 75 115 6 Ouite vigorous and leafy.
6 1ev	8
N.Y. 4th.	N.Y.
67-45 N.Y. 6 3-5 5 16 30 5 gn&t 6 2.0 1.2 sm e m gn 4th. level, right. Roberts	G-18343 N.Y. 8 3-6 8 75 115 6 gn&r 9 6.3 6.0 sm d mgn 6/16 .2 wh

TREES

		5/16/70
alus sleboldi	. m br 3 6.5 2.5 sm s m gn	s or fruit 6/16/70
0	0,2	or
arns	Sm	vers
	2.5	flow
,	6.5	No flowers
		-
	br 3	seedlings 'Fuji'.
	Ħ	168
	20 1	dlir
	20	see
	90	osh
	_	on McIntosh se
(∞	on
	_	rafted
	Md.	Gra
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